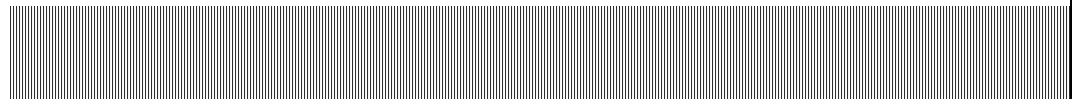
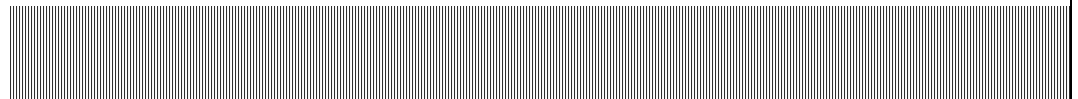


Figures

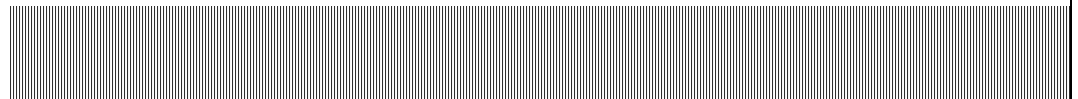


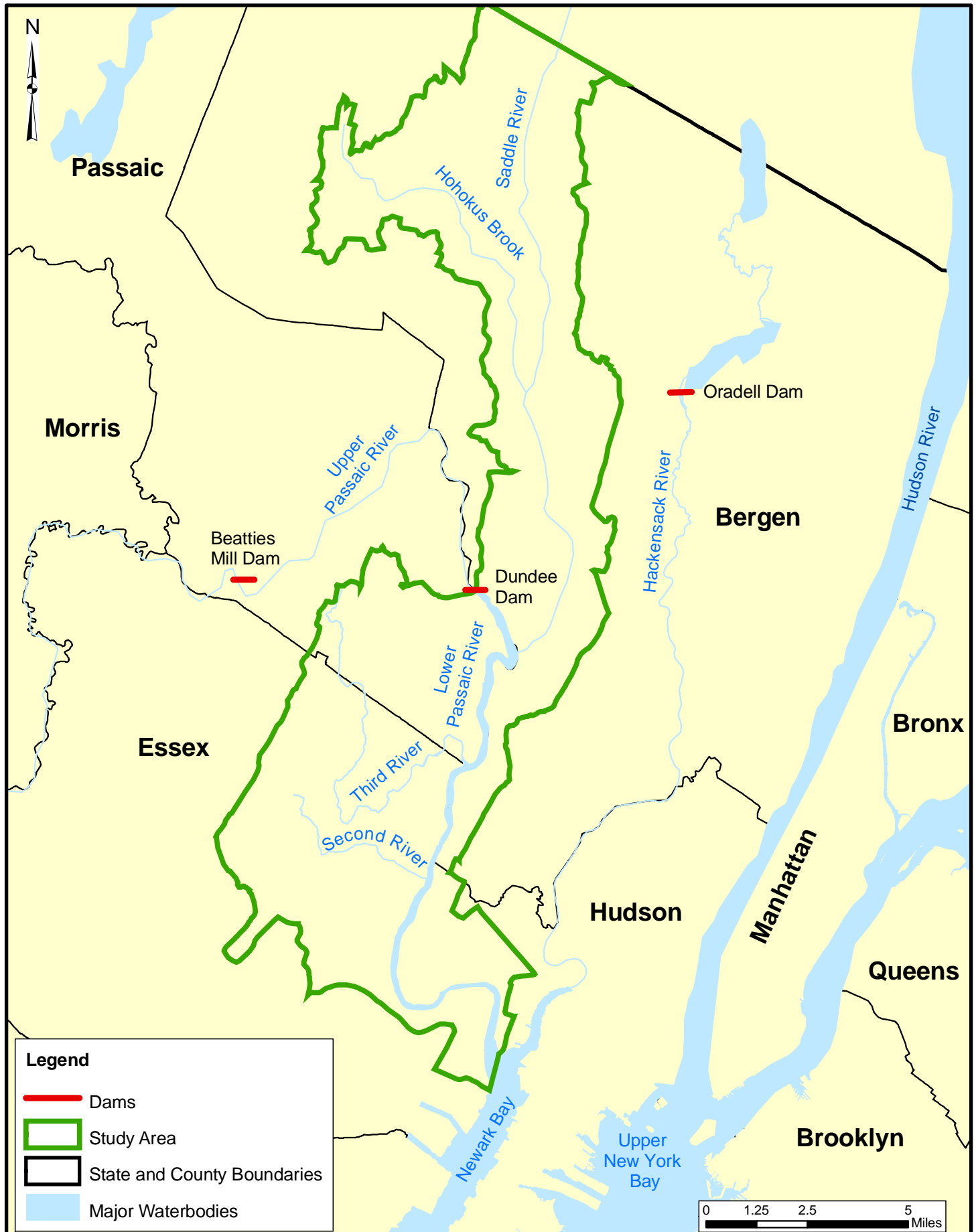
Agency Backcheck
Comprehensive Conceptual Site Model
Lower Passaic River Restoration Project

Section I



Chapter 1 Figures





Study Area Location Map

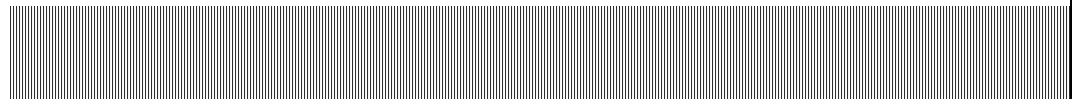
Lower Passaic River Restoration Project

Figure 1-1

2009



Chapter 2 Figures





0 1.25 2.5 5
Miles

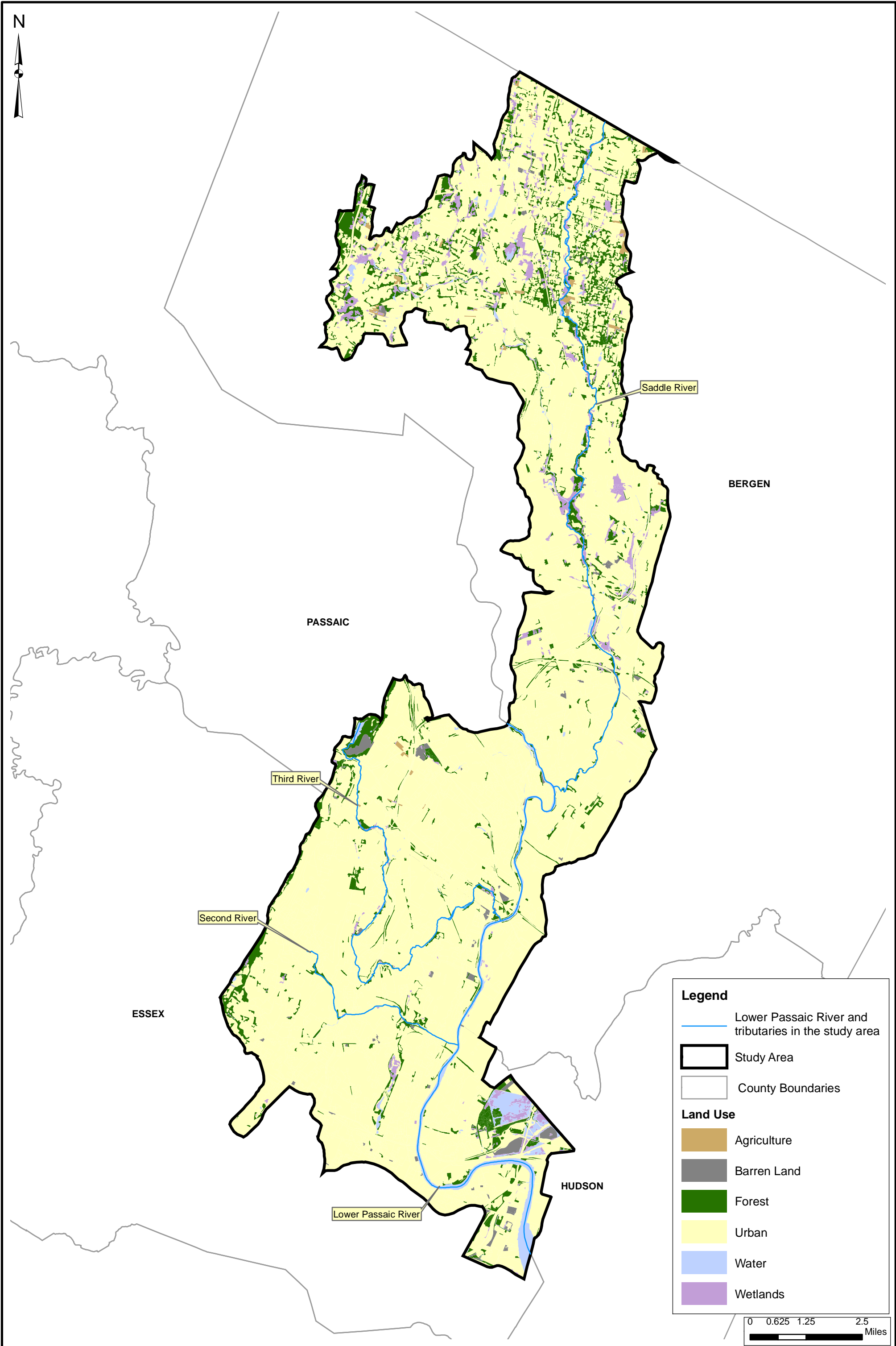


Hudson-Raritan Estuary

Lower Passaic River Restoration Project

Figure 2-1

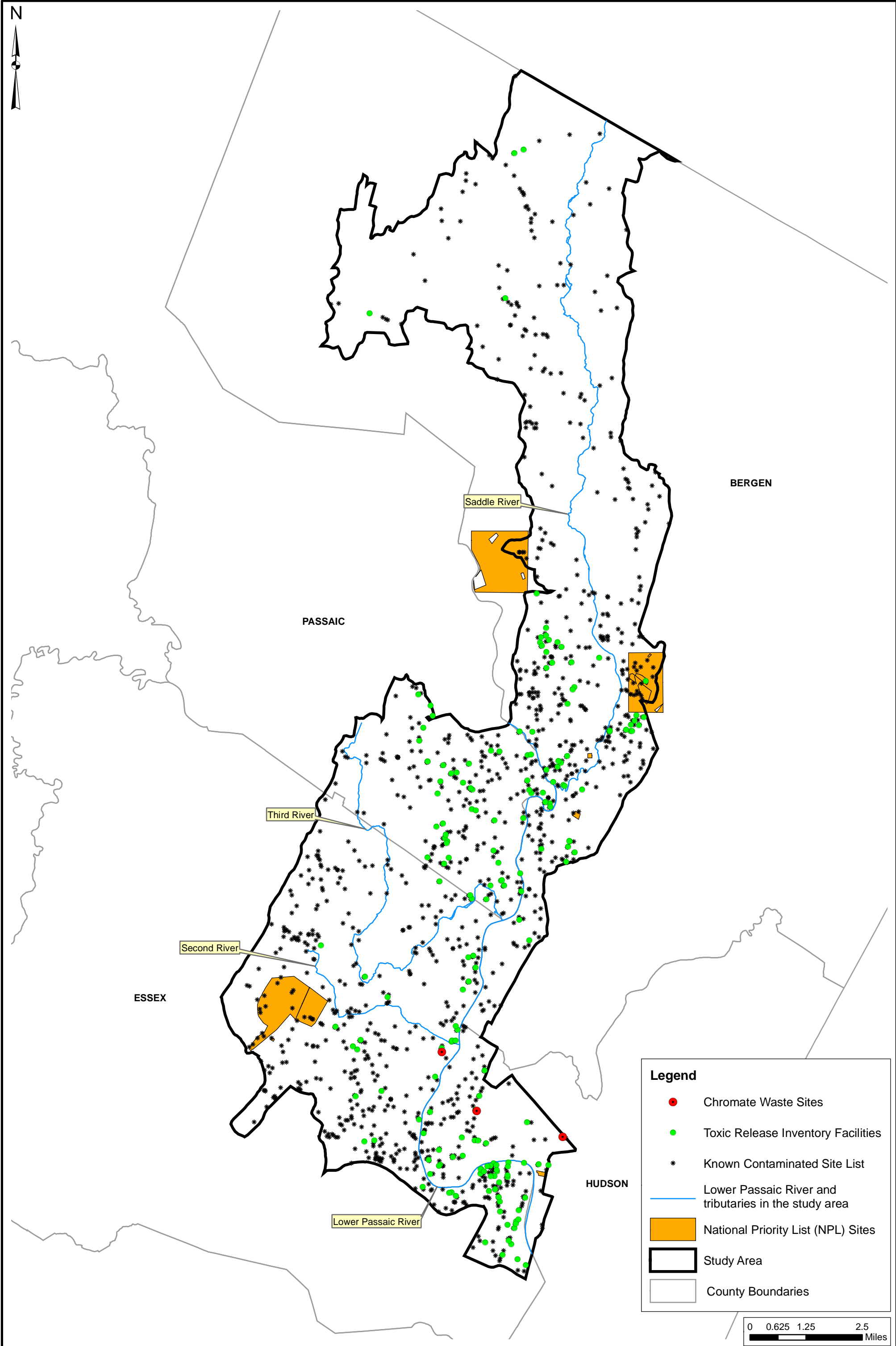
2009

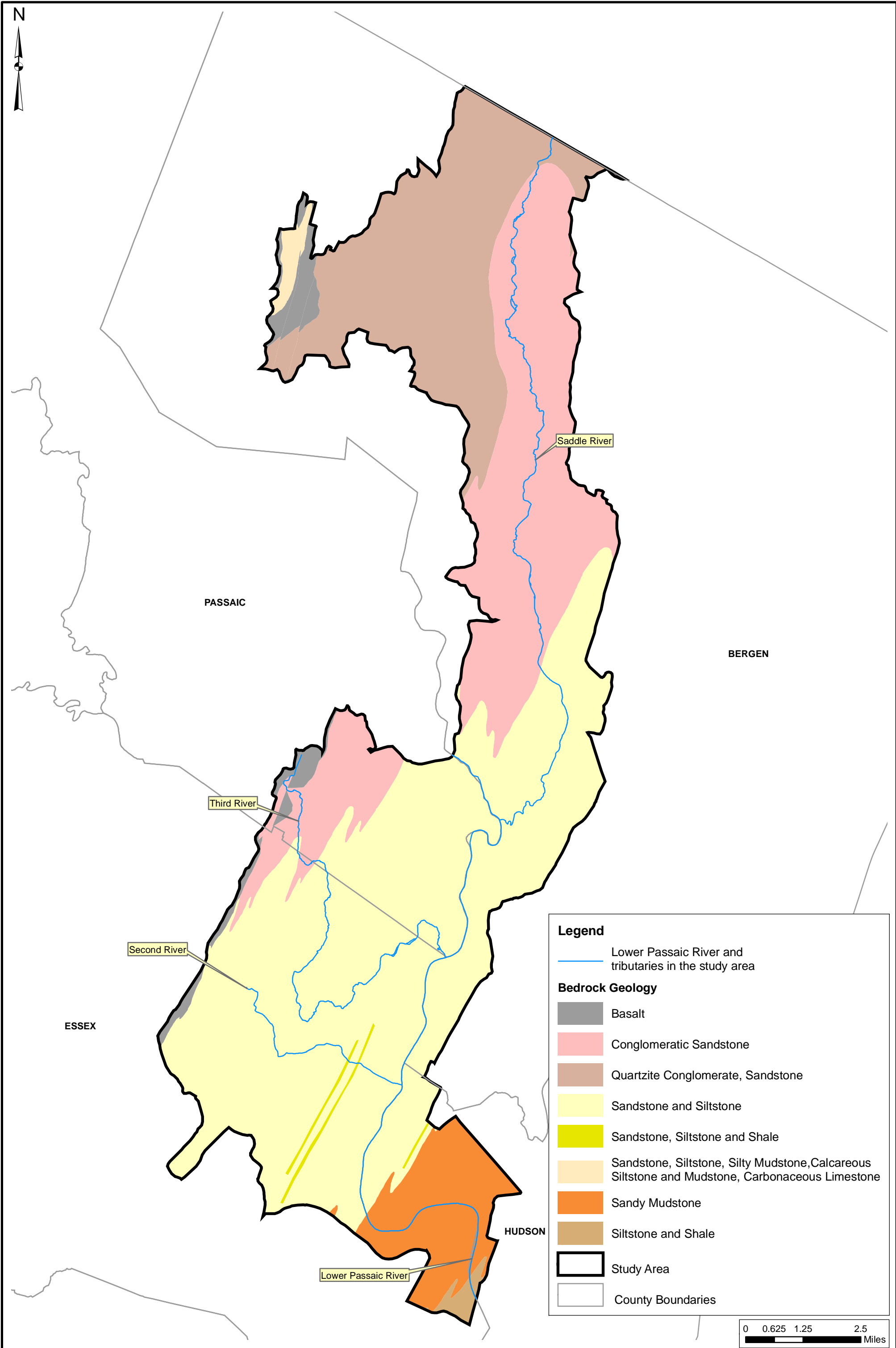


Existing Land Use Conditions
Lower Passaic River Restoration Project

Data Source:
Land Use, NJDEP, 2002

Figure 2-2
2009





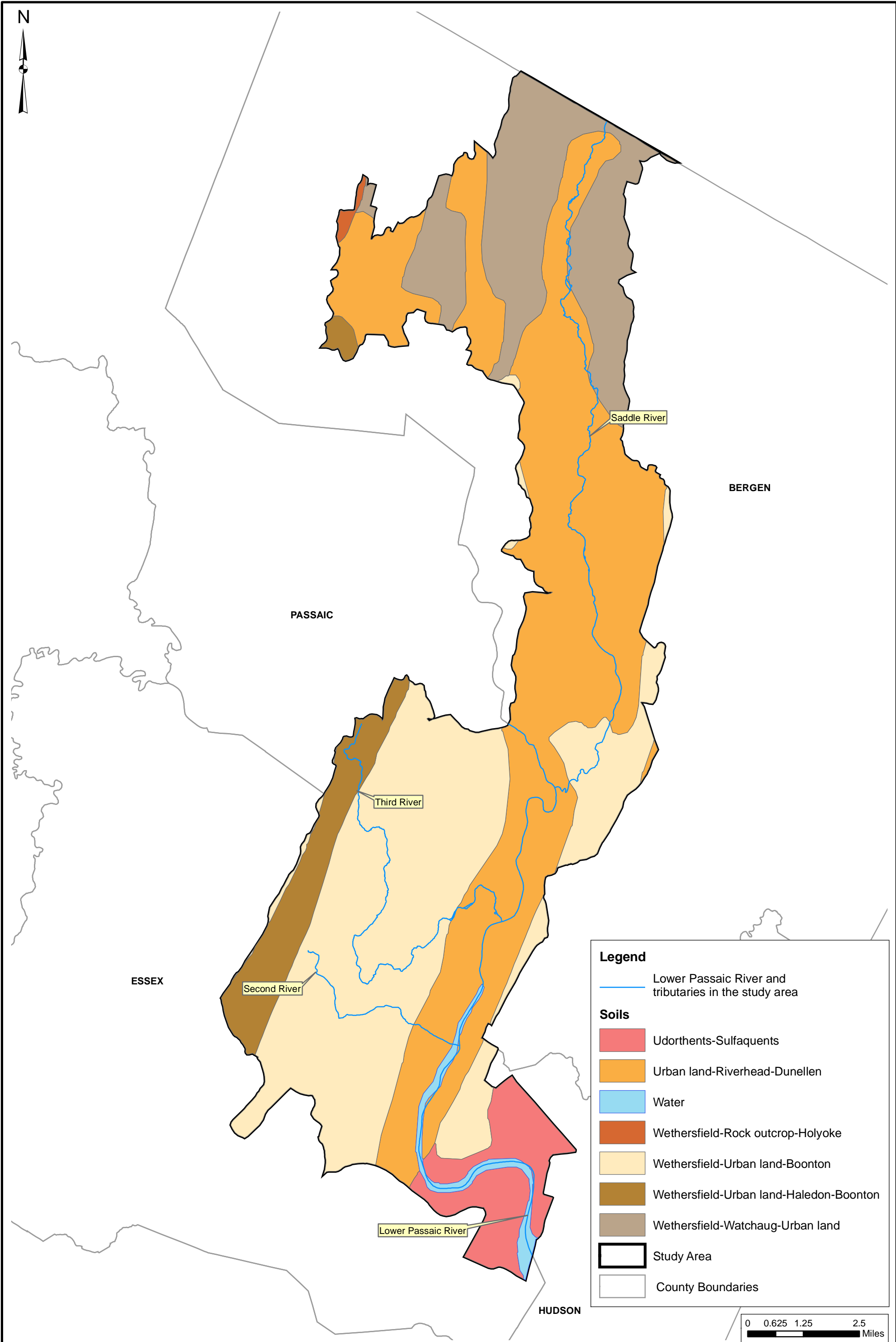
Existing Bedrock Geology

Lower Passaic River Restoration Project

Data Sources:
Bedrock Geology, NJGS and NJDEP, 2007

Figure 2-4

2009



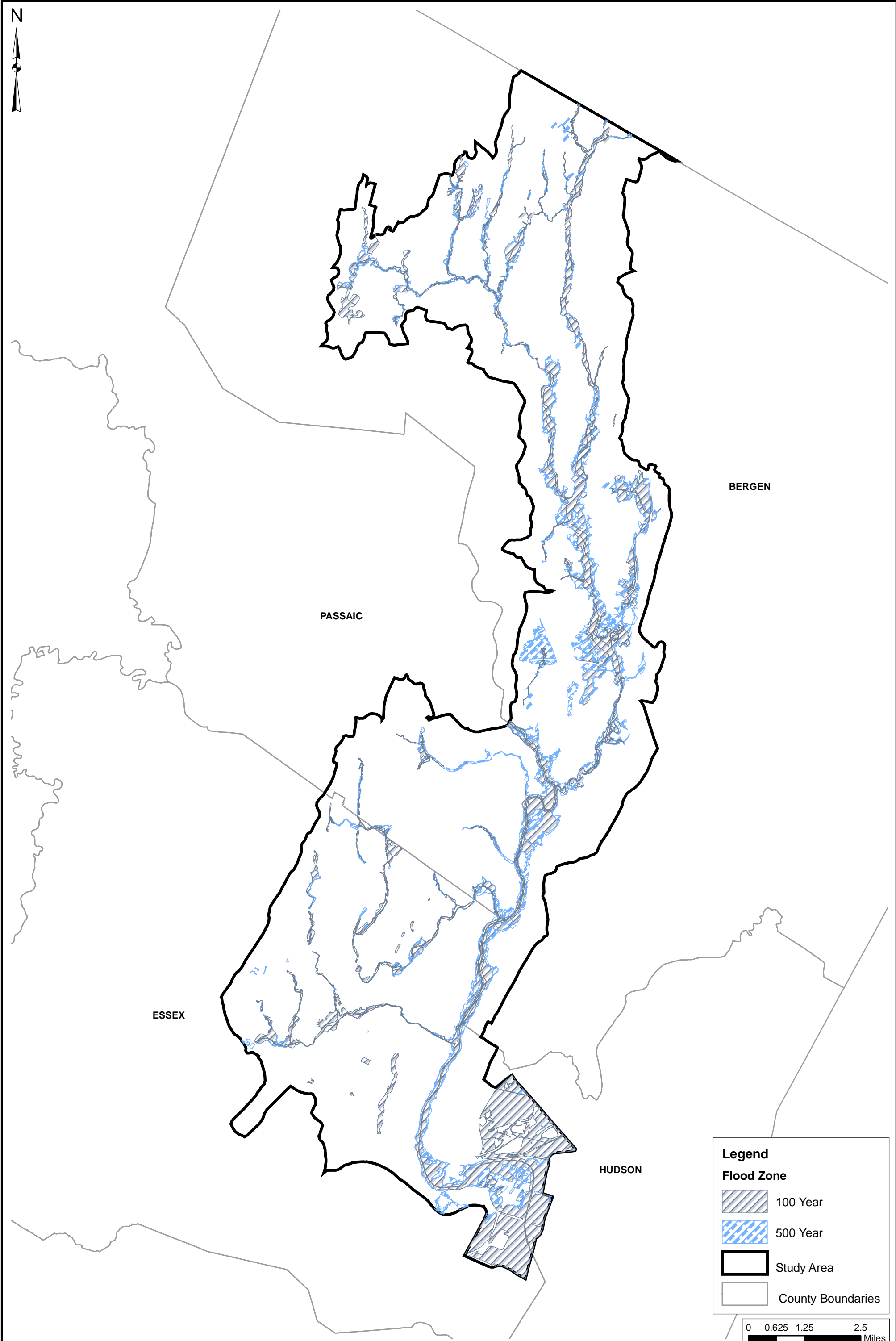
Existing Soil Types

Lower Passaic River Restoration Project

Data Sources:
Soils, NRCS and USDA, 2006

Figure 2-5

2009



Existing 100-Year and 500-Year Flood Zones
Lower Passaic River Restoration Project

Data Source:
FEMA Flood Zones, FEMA DFIRM Database,
2005-2007

Figure 2-6
2009



2004-2005 Field Reconnaissance at Kearny Point
(looking south/southwest)



2004-2005 Field Reconnaissance at RM1.9
(looking southwest at Pulaski Skyway)



2004-2005 Field Reconnaissance at RM2.3



November 2006 Site Visit at RM2.3
(looking east at Point No Point Bridge)



Photolog of Shoreline Conditions and Surrounding Habitat

Lower Passaic River Restoration Project

Figure 2-7a

2009



November 2006 Site Visit at RM2.4 (looking north at NJ Turnpike Bridge)



November 2006 Site Visit at RM2.6 (looking south)



November 2006 Site Visit at RM3.1 (looking south)



November 2006 Site Visit at RM3.2 (looking south)



Photolog of Shoreline Conditions and Surrounding Habitat

Lower Passaic River Restoration Project

Figure 2-7b

2009



November 2006 Site Visit at RM3.4
(looking southwest)



November 2006 Site Visit at RM3.5
(looking east)



November 2006 Site Visit at RM3.5
(looking southwest)



November 2006 Site Visit at RM4.5 (looking
northeast at Jackson Street Bridge)



Photolog of Shoreline Conditions and Surrounding Habitat

Lower Passaic River Restoration Project

Figure 2-7c

2009



November 2006 Site Visit at RM5
(looking southwest)



November 2006 Site Visit at RM5.4
(looking north at Bridge Street Bridge)



November 2006 Site Visit at RM6
(looking east)



2004-2005 Field Reconnaissance at
RM6.2 (looking east)



Photolog of Shoreline Conditions and Surrounding Habitat

Lower Passaic River Restoration Project

Figure 2-7d

2009



2004-2005 Field Reconnaissance at
RM6.9 (looking east)



2004-2005 Field Reconnaissance at
RM7.2 (looking east)



2004-2005 Field Reconnaissance at
RM7.2 (looking east)



2004-2005 Field Reconnaissance at
RM7.4 (looking east)



Photolog of Shoreline Conditions and Surrounding Habitat

Lower Passaic River Restoration Project

Figure 2-7e

2009



2004-2005 Field Reconnaissance at RM7.8
(looking east at Belleville Turnpike Bridge)



2004-2005 Field Reconnaissance at
RM8.3 (looking east)



2004-2005 Field Reconnaissance at
RM9.4 (looking east)



2004-2005 Field Reconnaissance at
RM9.4 (looking east)



Photolog of Shoreline Conditions and Surrounding Habitat

Lower Passaic River Restoration Project

Figure 2-7f

2009



2004-2005 Field Reconnaissance at
RM9.6 (looking east)



2004-2005 Field Reconnaissance at
RM9.8 (looking east)



2004-2005 Field Reconnaissance at
RM10.1 (looking east)



November 2006 Site Visit at RM10.4
(looking north at De Jesse Street Bridge)



Photolog of Shoreline Conditions and Surrounding Habitat

Lower Passaic River Restoration Project

Figure 2-7g

2009



2004-2005 Field Reconnaissance at
RM10.7 (looking east)



2004-2005 Field Reconnaissance at
RM11.5 (looking east)



2004-2005 Field Reconnaissance at
RM11.7 (looking east)



2004-2005 Field Reconnaissance at
RM12.8 (looking west)



Photolog of Shoreline Conditions and Surrounding Habitat

Lower Passaic River Restoration Project

Figure 2-7h

2009



2004-2005 Field Reconnaissance at
RM12.9 (looking east)



2004-2005 Field Reconnaissance at
RM12.9 (looking east)



2004-2005 Field Reconnaissance at
RM14.2 (looking east)



2004-2005 Field Reconnaissance at
RM14.3

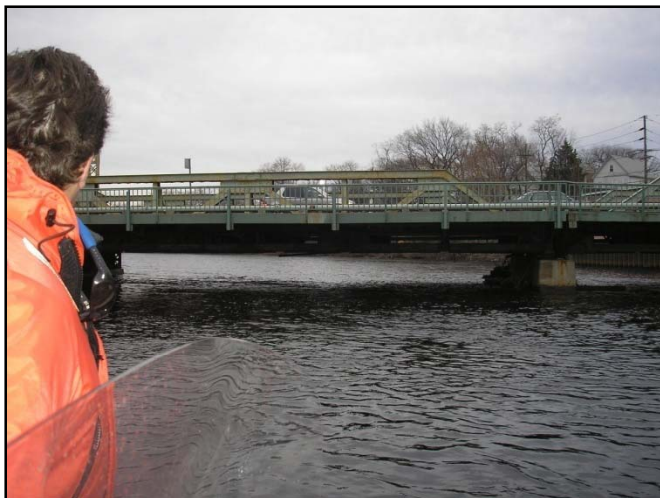


Photolog of Shoreline Conditions and Surrounding Habitat

Lower Passaic River Restoration Project

Figure 2-7i

2009



November 2006 Site Visit at RM15.8
(looking south at Passaic Street Bridge)



2004-2005 Field Reconnaissance at RM15.9
(looking north at Monroe Street Bridge)



November 2006 Site Visit at RM15.9
(looking north at Monroe Street Bridge)



2004-2005 Field Reconnaissance at
RM15.9 (looking northeast)



Photolog of Shoreline Conditions and Surrounding Habitat

Lower Passaic River Restoration Project

Figure 2-7j

2009



November 2006 Site Visit at RM15.9
(looking northeast)



2004-2005 Field Reconnaissance at RM16



2004-2005 Field Reconnaissance at
Island at RM16.5 (looking west)



2004-2005 Field Reconnaissance at
RM16.5 (looking east from road)



Photolog of Shoreline Conditions and Surrounding Habitat

Lower Passaic River Restoration Project

Figure 2-7k

2009



2004-2005 Field Reconnaissance at
RM17.2 (looking east)



2004-2005 Field Reconnaissance at RM17.2



2004-2005 Field Reconnaissance at
RM17.4 (near Dundee Dam)



2004-2005 Field Reconnaissance at RM
17.4 (near Dundee Dam)

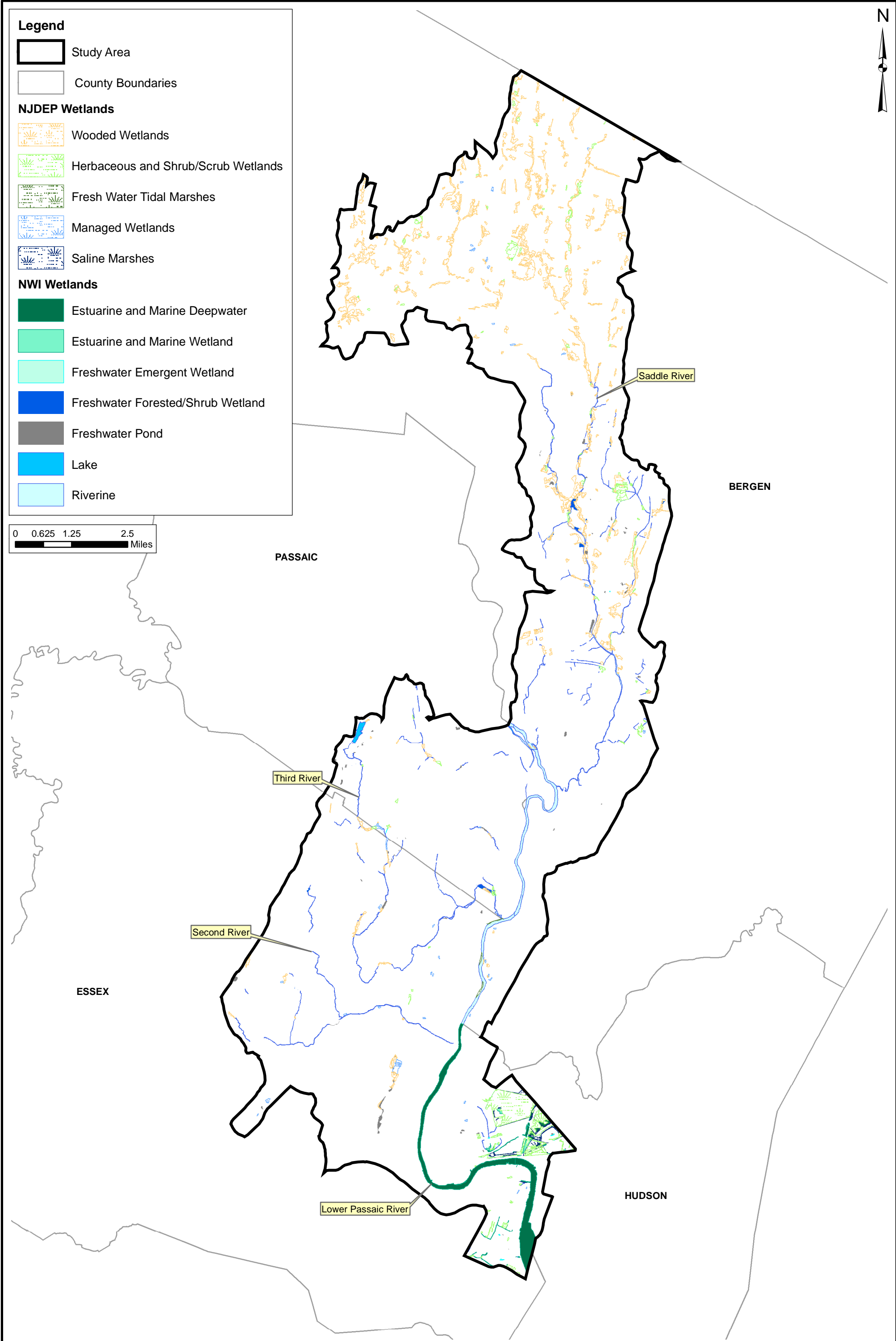


Photolog of Shoreline Conditions and Surrounding Habitat

Lower Passaic River Restoration Project

Figure 2-7I

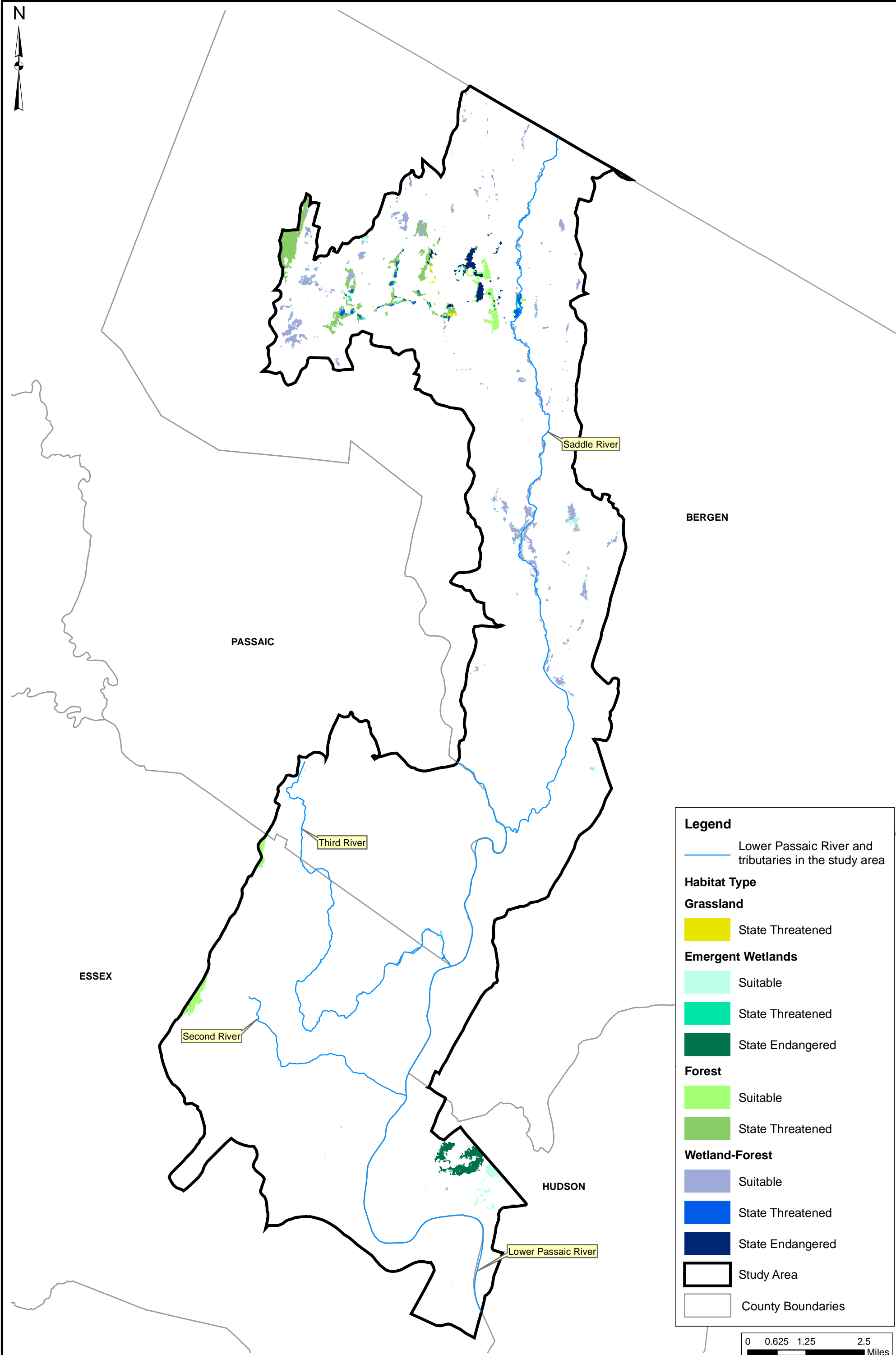
2009



Existing Wetlands

Lower Passaic River Restoration Project

Data Sources:
NWI Wetlands, National Wetland Inventory Dataset, 2007
NJDEP Wetlands, NJDEP, 1999

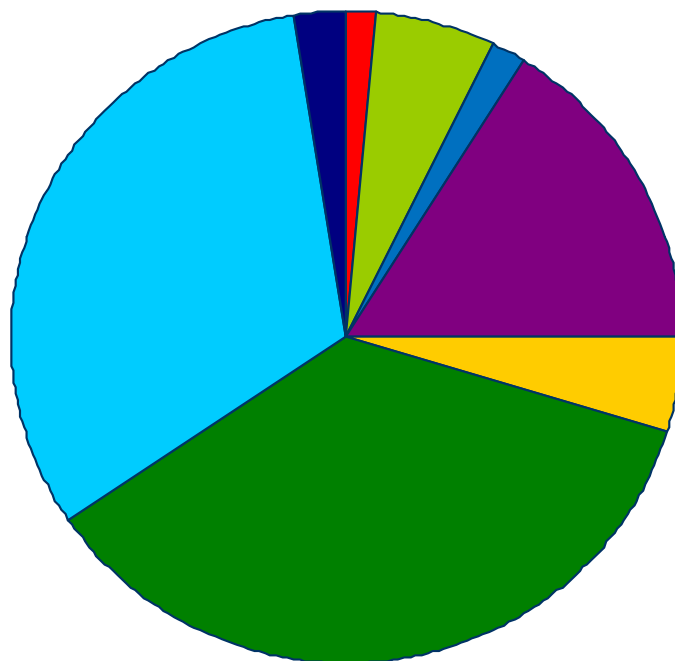


**Existing Habitat for Endangered
and Threatened Species**
Lower Passaic River Restoration Project

Data Sources:
Habitat, NJDEP Division of Fish
and Wildlife, 2001

Figure 2-9
2009

1999 Field Data



Legend

- Atlantic Menhaden
- Gizzard Shad
- Striped Bass
- White Perch
- American Eel
- Blue Crab
- Mummichog (killifish)
- Other Species

Notes

Demersal and Pelagic Fish from RM1 to RM7. Excludes incidental catch for each gear types (e.g., silversides in gill nets).

Data Source: TSI (2002) as cited in Earth Tech, Inc. and Malcolm Pirnie, Inc., 2004.



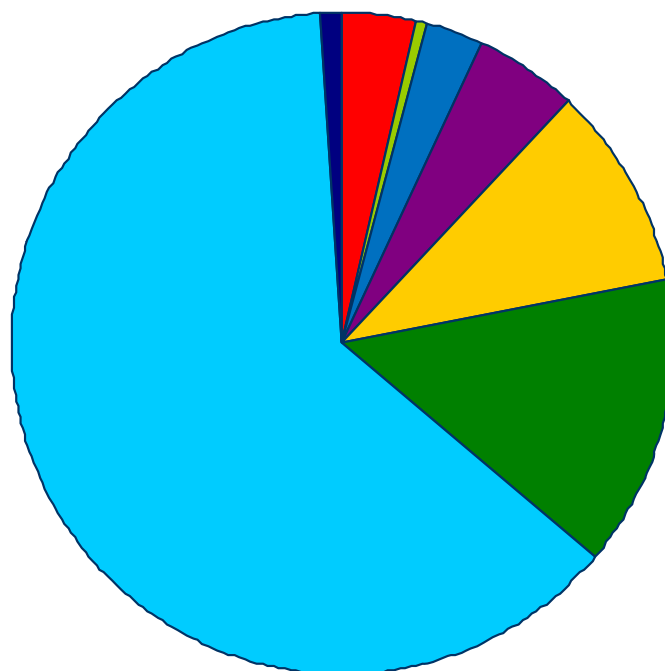
Existing Fish Communities in the Lower Passaic River

Lower Passaic River Restoration Project

Figure 2-10a

2009

2000 Field Data



Legend

- Atlantic Menhaden
- Gizzard Shad
- Striped Bass
- White Perch
- Inland Silverside
- Blue Crab
- Mummichog (killifish)
- Other

Notes

Demersal and Pelagic Fish from RM1 to RM7. Excludes incidental catch for each gear types (e.g., silversides in gill nets).

Data Source: TSI (2002) as cited in Earth Tech, Inc. and Malcolm Pirnie, Inc., 2004.

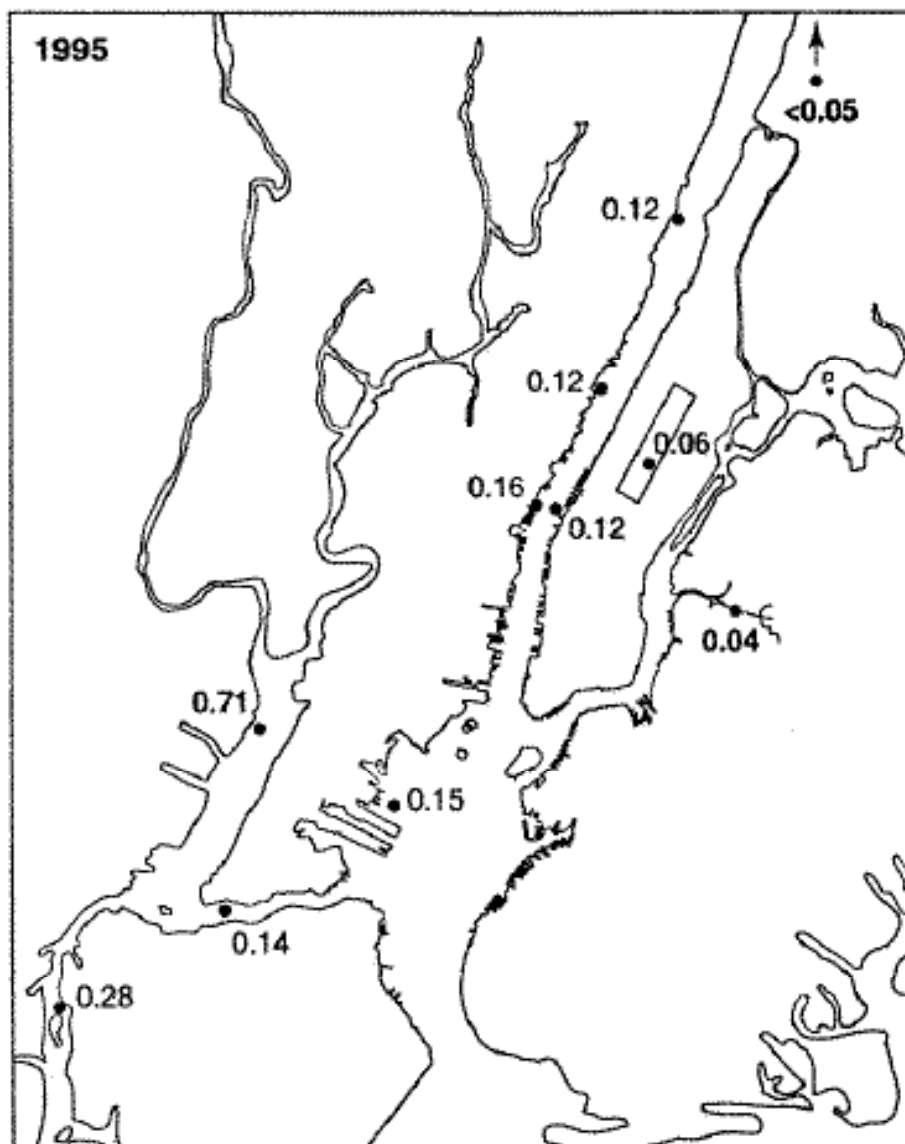


Existing Fish Communities in the Lower Passaic River

Lower Passaic River Restoration Project

Figure 2-10b

2009



Legend

- 2,3,7,8-TCDD/Total TCDD Ratio

Notes

Chaky DA, 2003.
 "Polychlorinated Biphenyls, Polychlorinated Dibenzo-p-Dioxins and Furans in the New York Metropolitan Area; Interpreting Atmospheric Deposition and Sediment Chronologies." PhD Thesis, Rensselaer Polytechnic Institute, Troy, NY. August 2003.

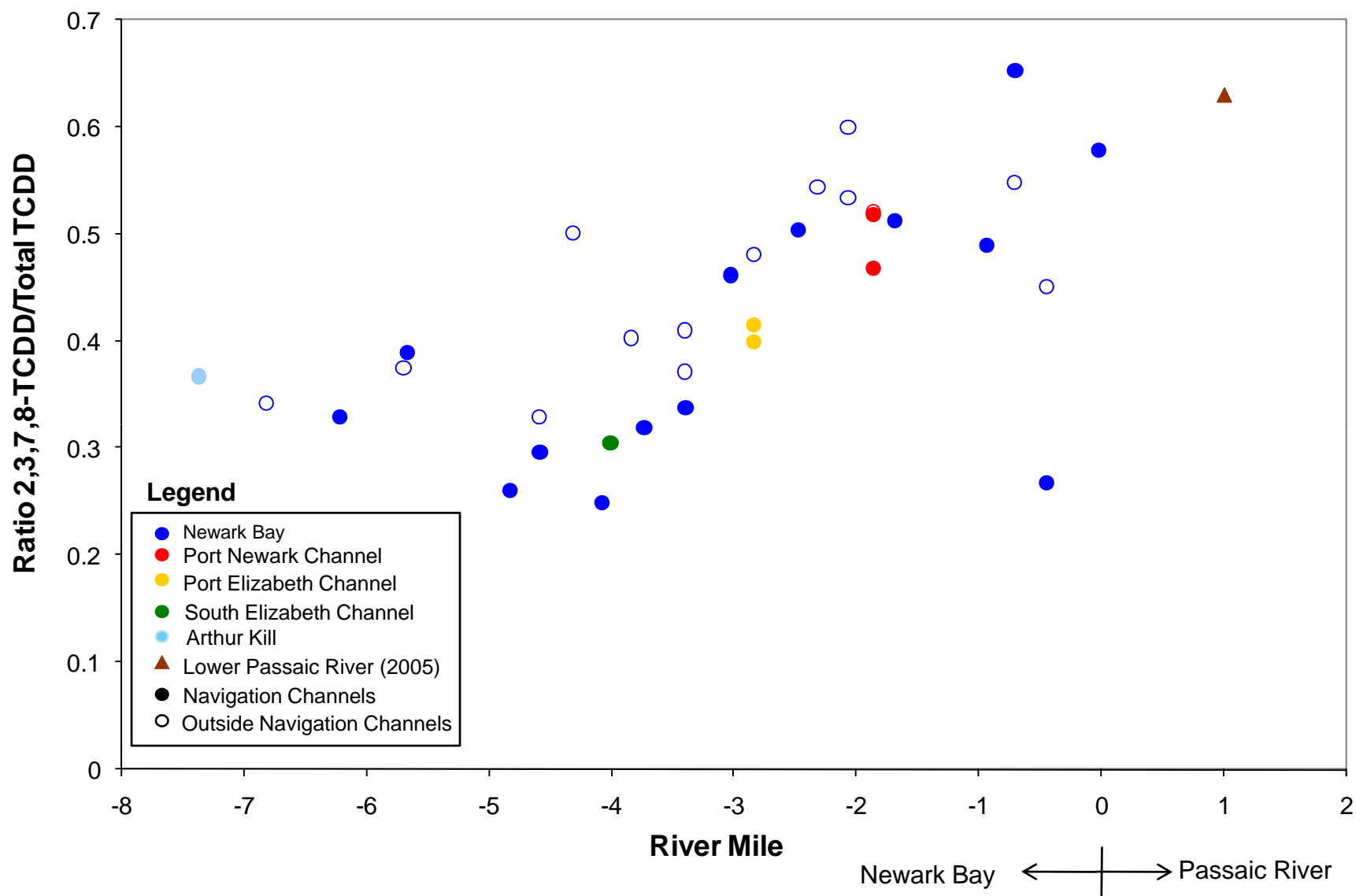


Reprint from Chaky (2003): Ratio of 2,3,7,8-TCDD/Total TCDD in the Hudson-Raritan Estuary in 1995

Lower Passaic River Restoration Project

Figure 2-11

2009

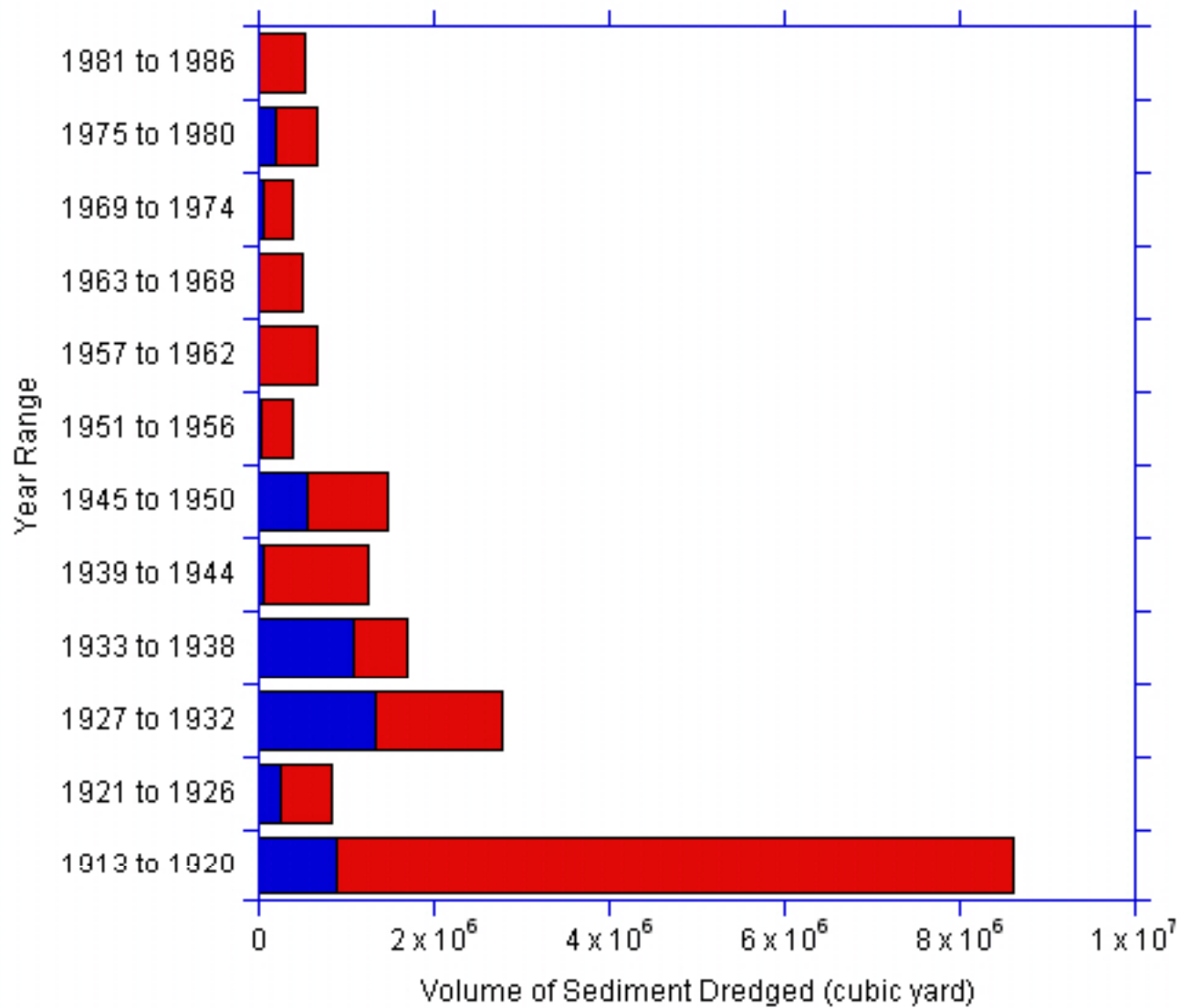


Ratio of 2,3,7,8-TCDD/Total TCDD in Newark Bay
Surface Sediments

Lower Passaic River Restoration Project

Figure 2-12

2009



Legend

- Below RM2
- Above RM2

Notes

Data Sources: USACE, 1880, USACE, 1884, USACE, 1900, USACE, 1907, USACE, 1913, USACE, 1915, USACE, 1916, and USACE, 1917 as cited in Iannuzzi, *et al.*, 2002 (refer to Section 10 "References" for complete citation).

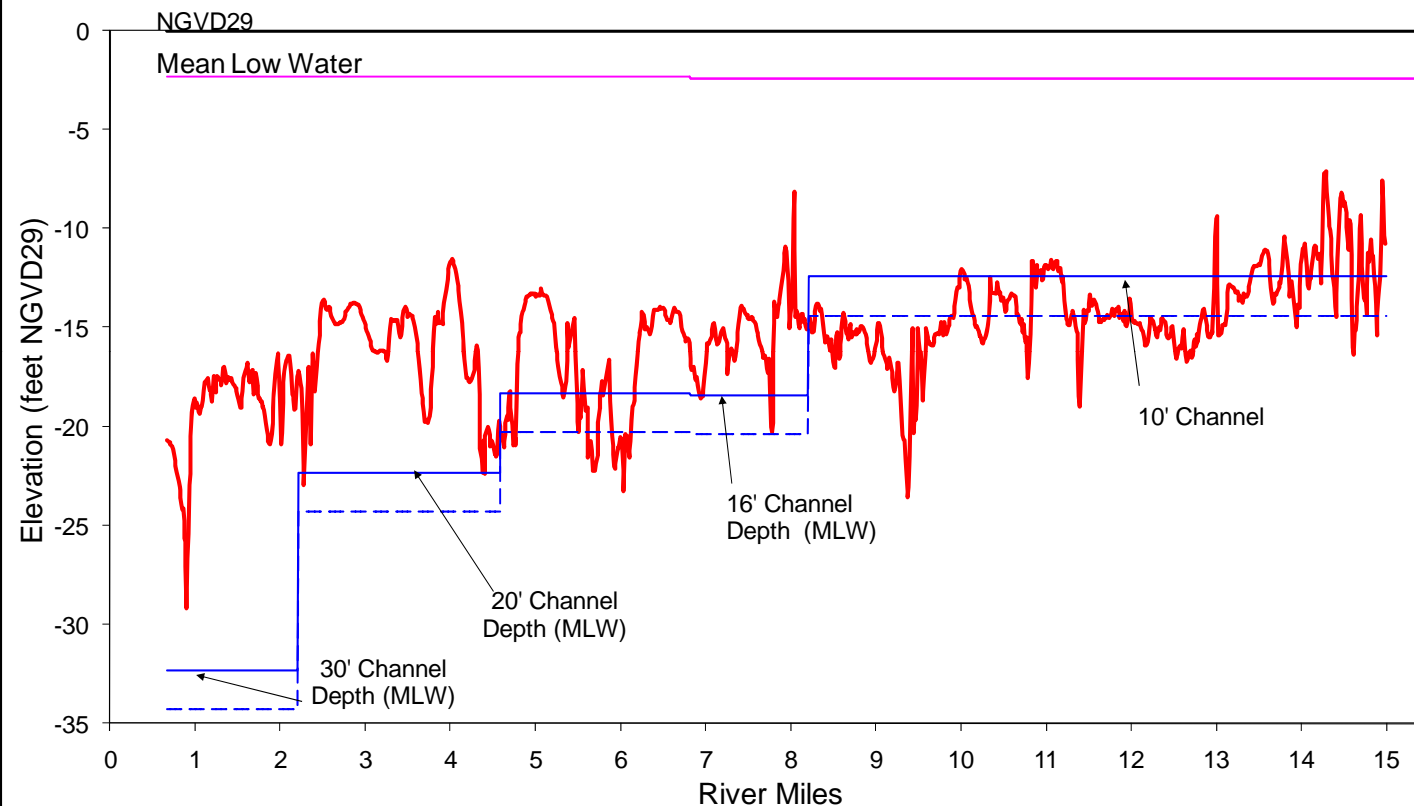


The History of Dredging in the Lower Passaic River

Lower Passaic River Restoration Project

Figure 2-13

2009



Legend

- Navigational Channel Centerline Bathymetry
- Navigational Channel Depth
- Navigational Channel Depth + 2 feet

Notes

Channel depths were dredged relative to mean low water (MLW). The difference between NGVD29 and MLW is approximately 2.3 feet.

Solid blue line represents federally mandated channel depth.

Dashed blue line represents the channel depth +2 feet which would have been the dredged depth in order to maintain the federally specified channel depth.

Elevation data estimated from 2004 bathymetric data surveyed by Rogers Survey, Inc. for USACE.



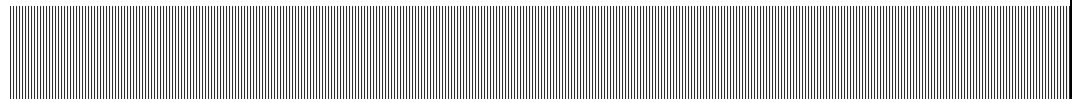
River Bottom Elevation and Authorized Channel Depths

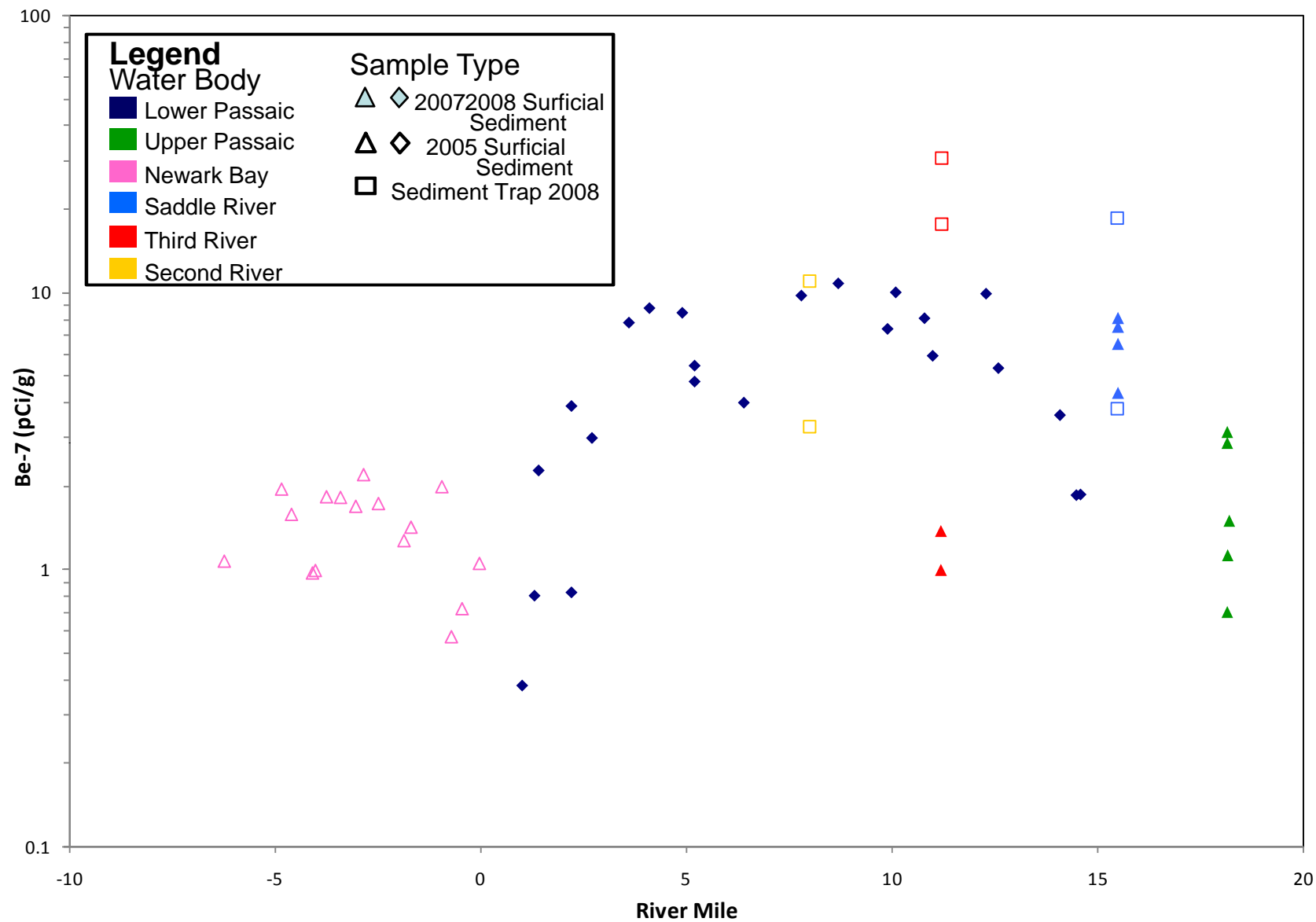
Lower Passaic River Restoration Project

Figure 2-14

2009

Chapter 3 Figures





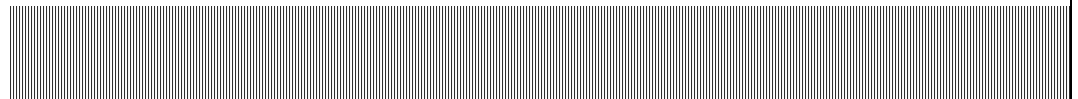
Beryllium-7 Activity vs. River Mile

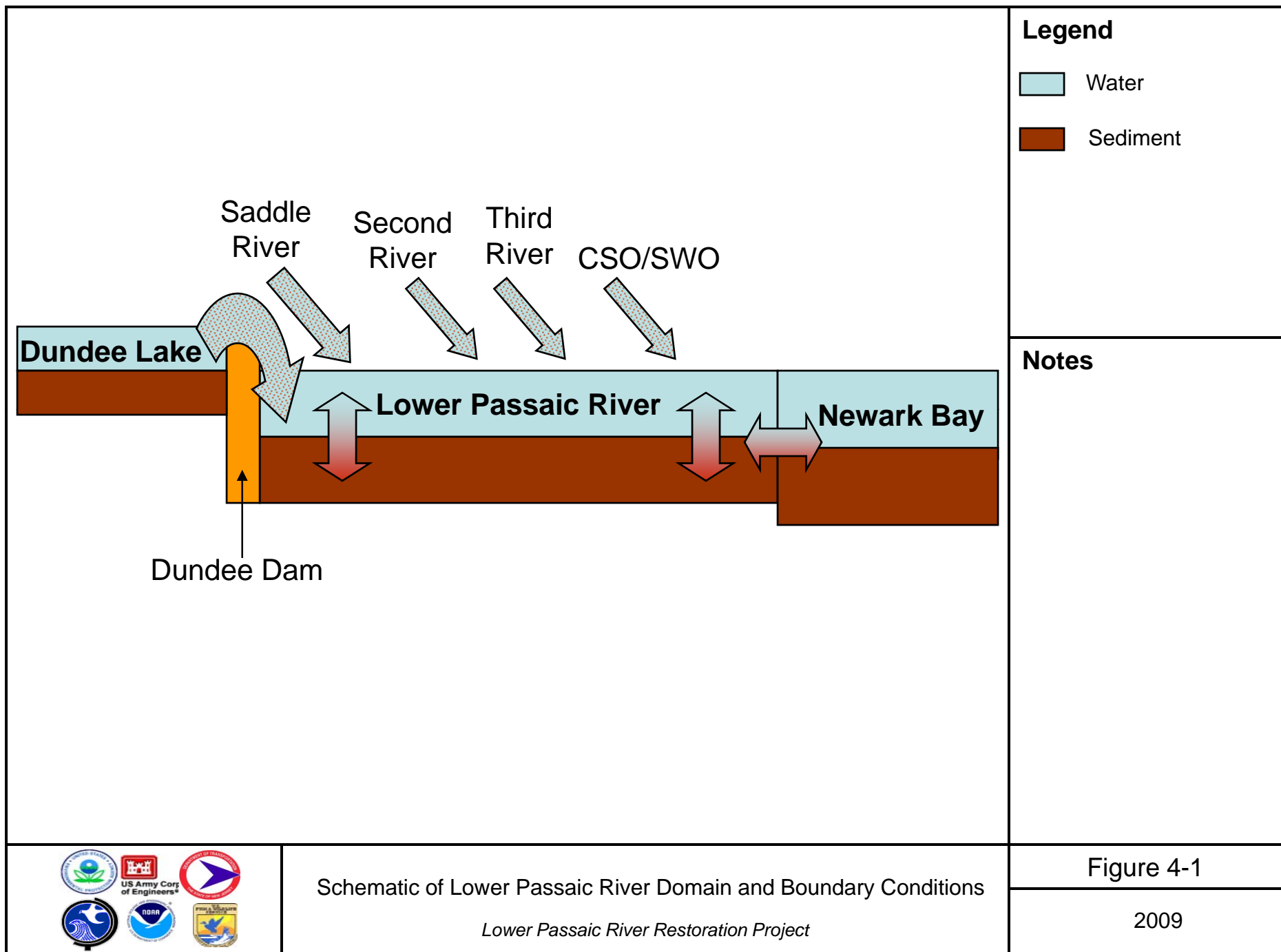
Lower Passaic River Restoration Project

Figure 3-1

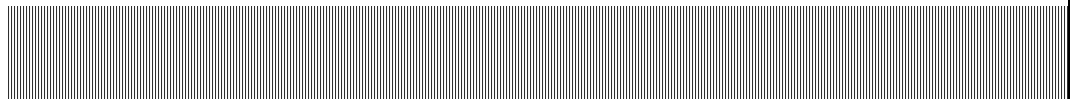
2009

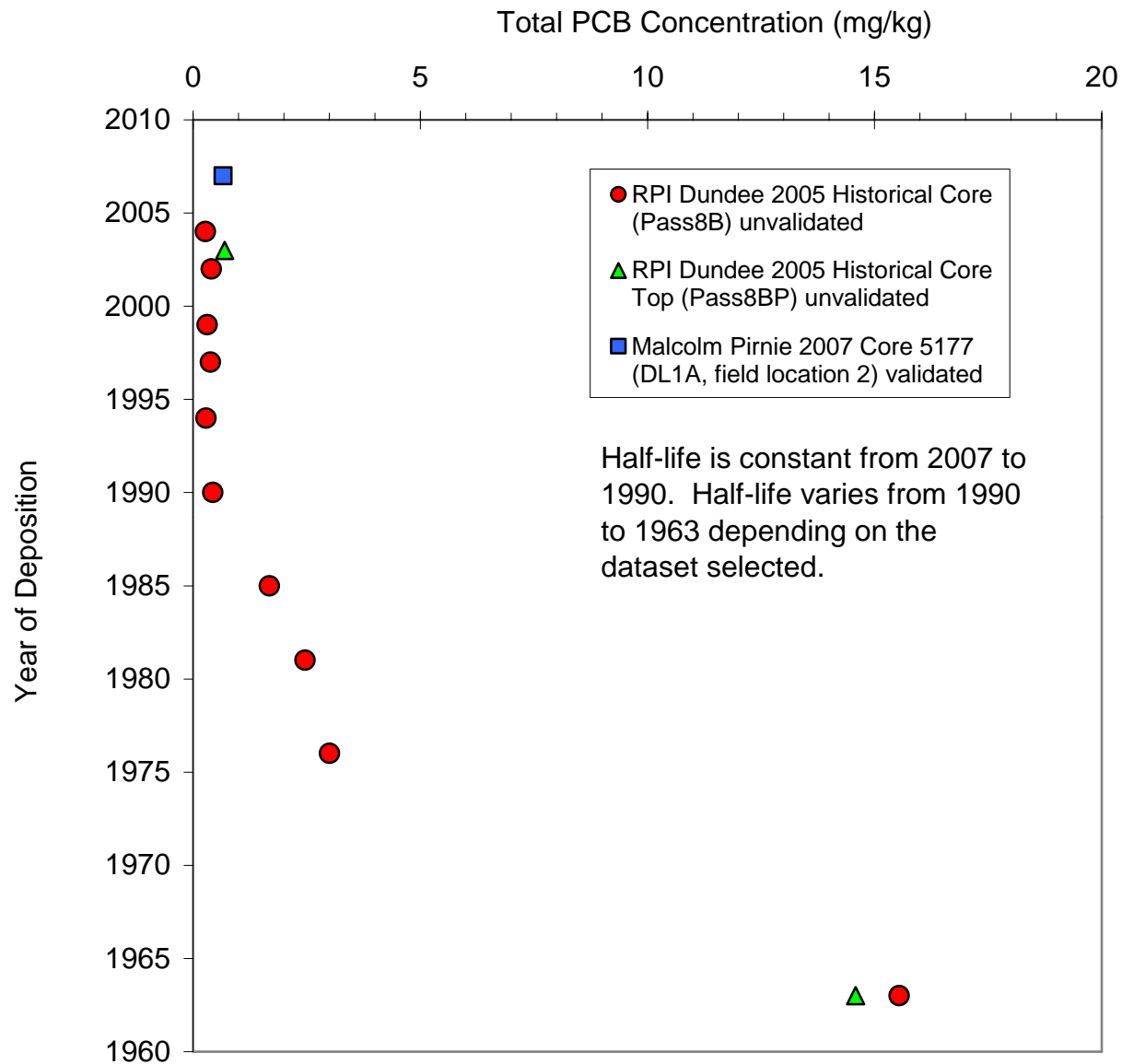
Chapter 4 Figures





Chapter 5 Figures



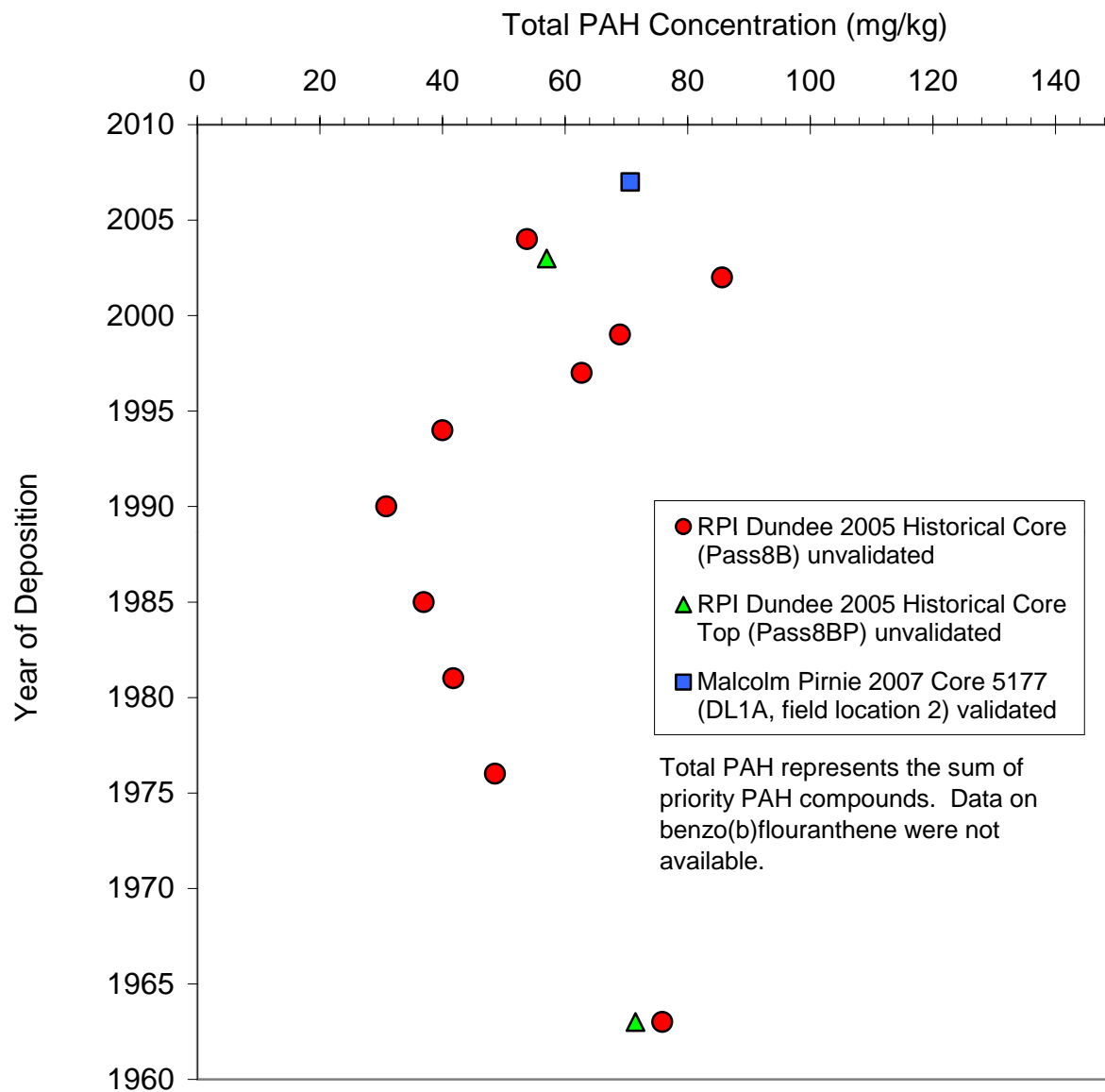


Total PCB Downcore Profile

Lower Passaic River Restoration Project

Figure 5-1

2009

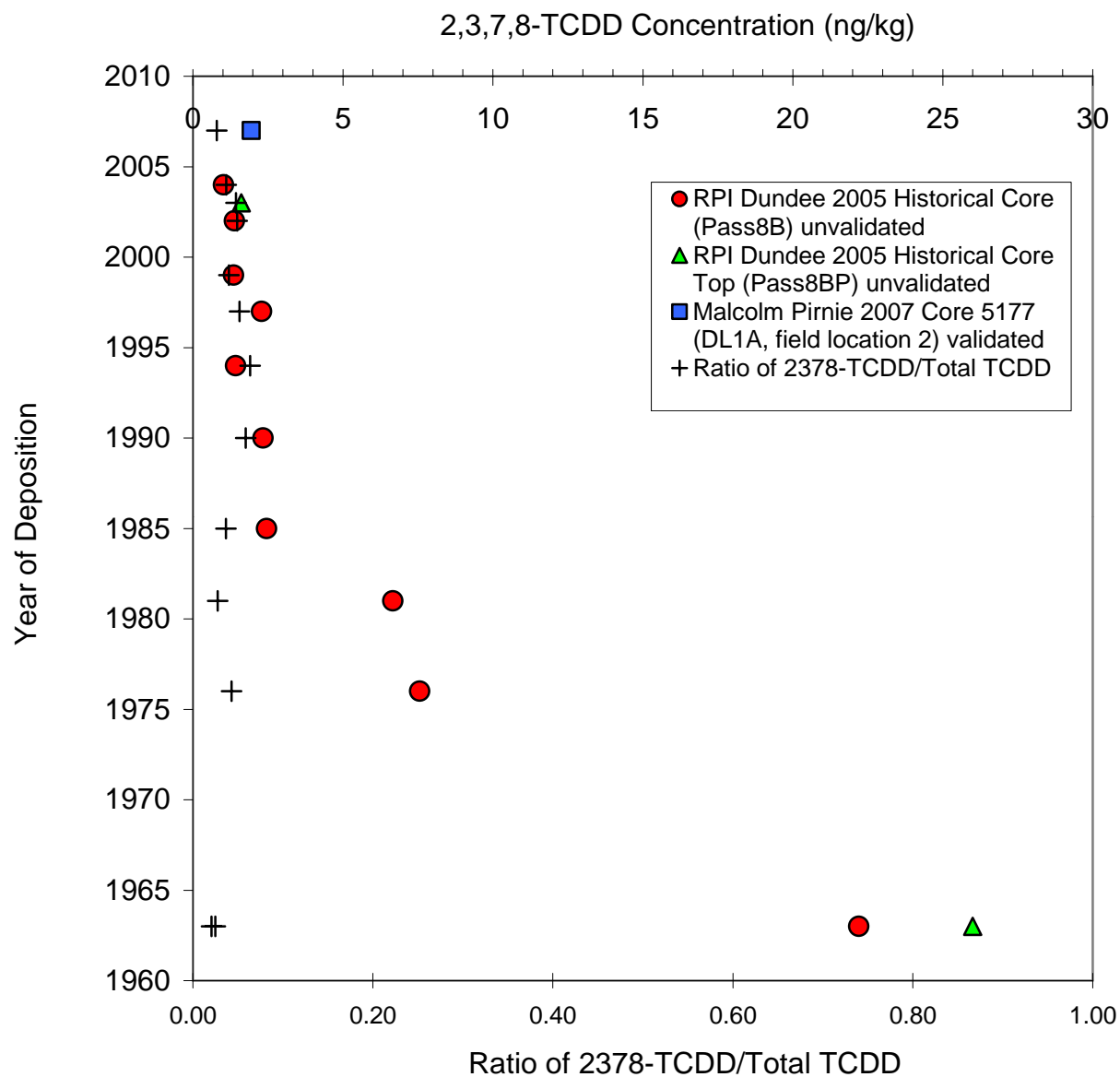


Total PAH Downcore Profile

Lower Passaic River Restoration Project

Figure 5-2

2009

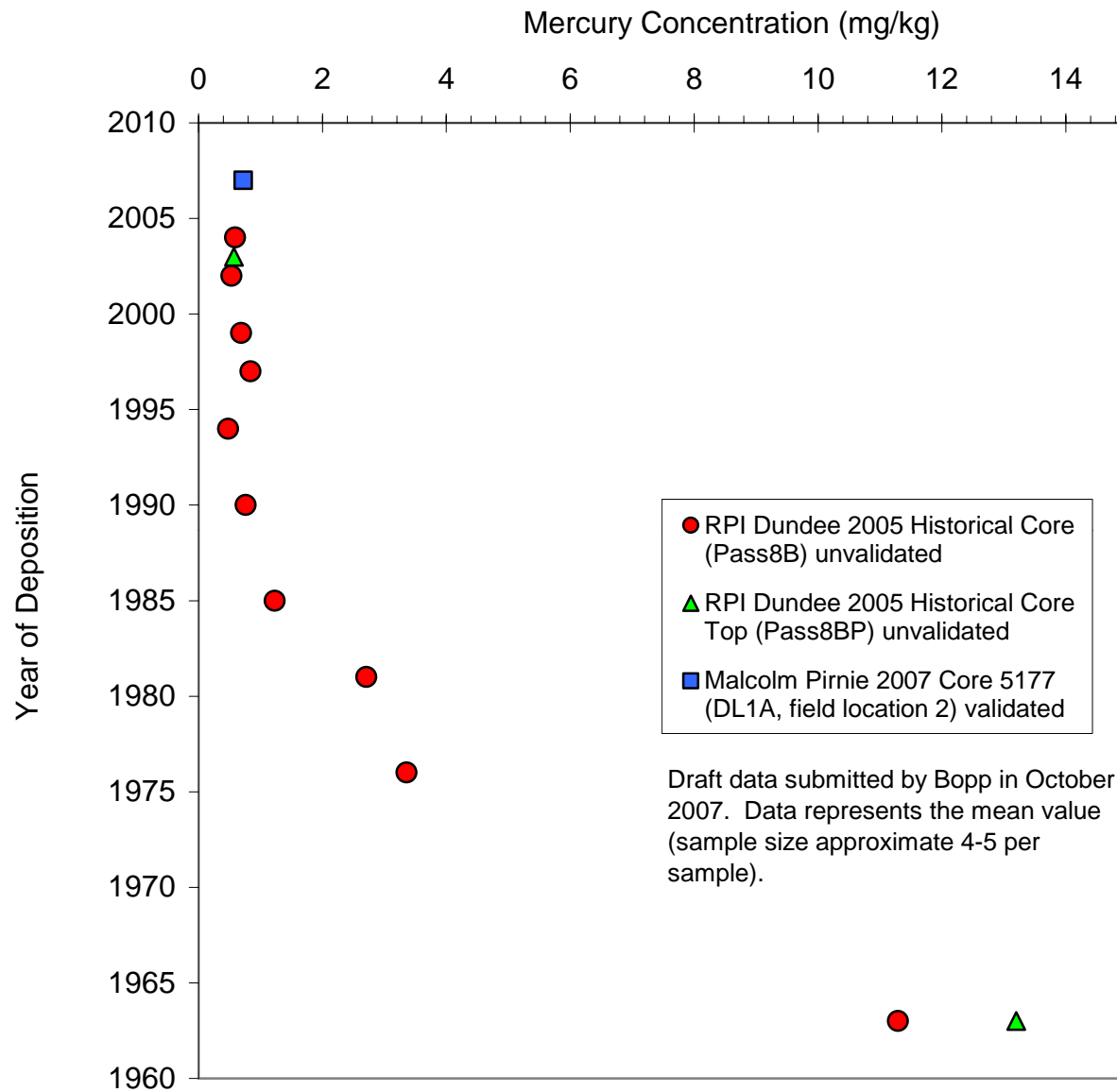


2,3,7,8-TCDD Downcore Profile

Lower Passaic River Restoration Project

Figure 5-3

2009



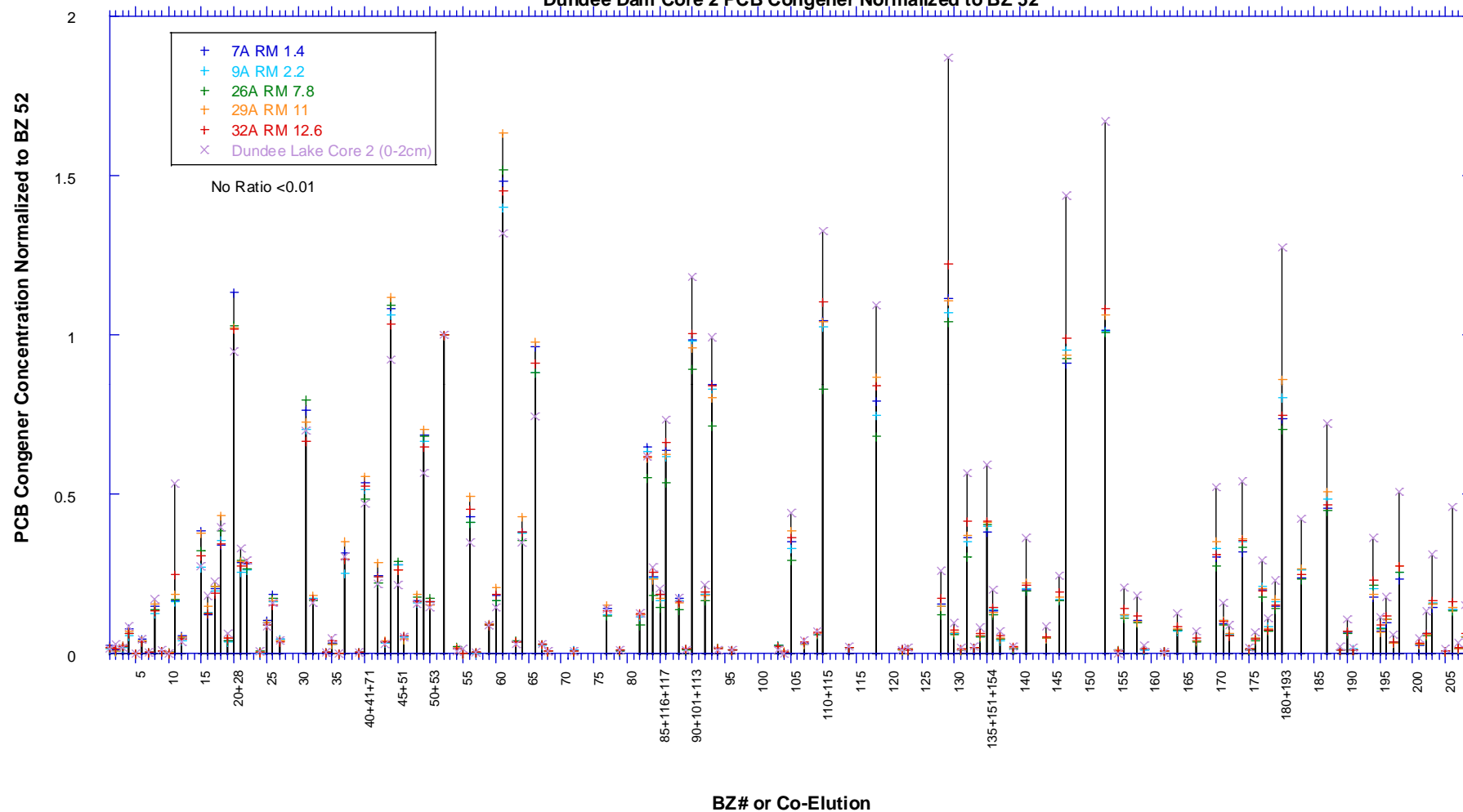
Mercury Downcore Profile

Lower Passaic River Restoration Project

Figure 5-4

2009

Passaic River High Resolution Cores and
Dundee Dam Core 2 PCB Congener Normalized to BZ 52



Normalized PCB Congener Pattern for Dundee Dam and Lower
Passaic River

Lower Passaic River Restoration Project

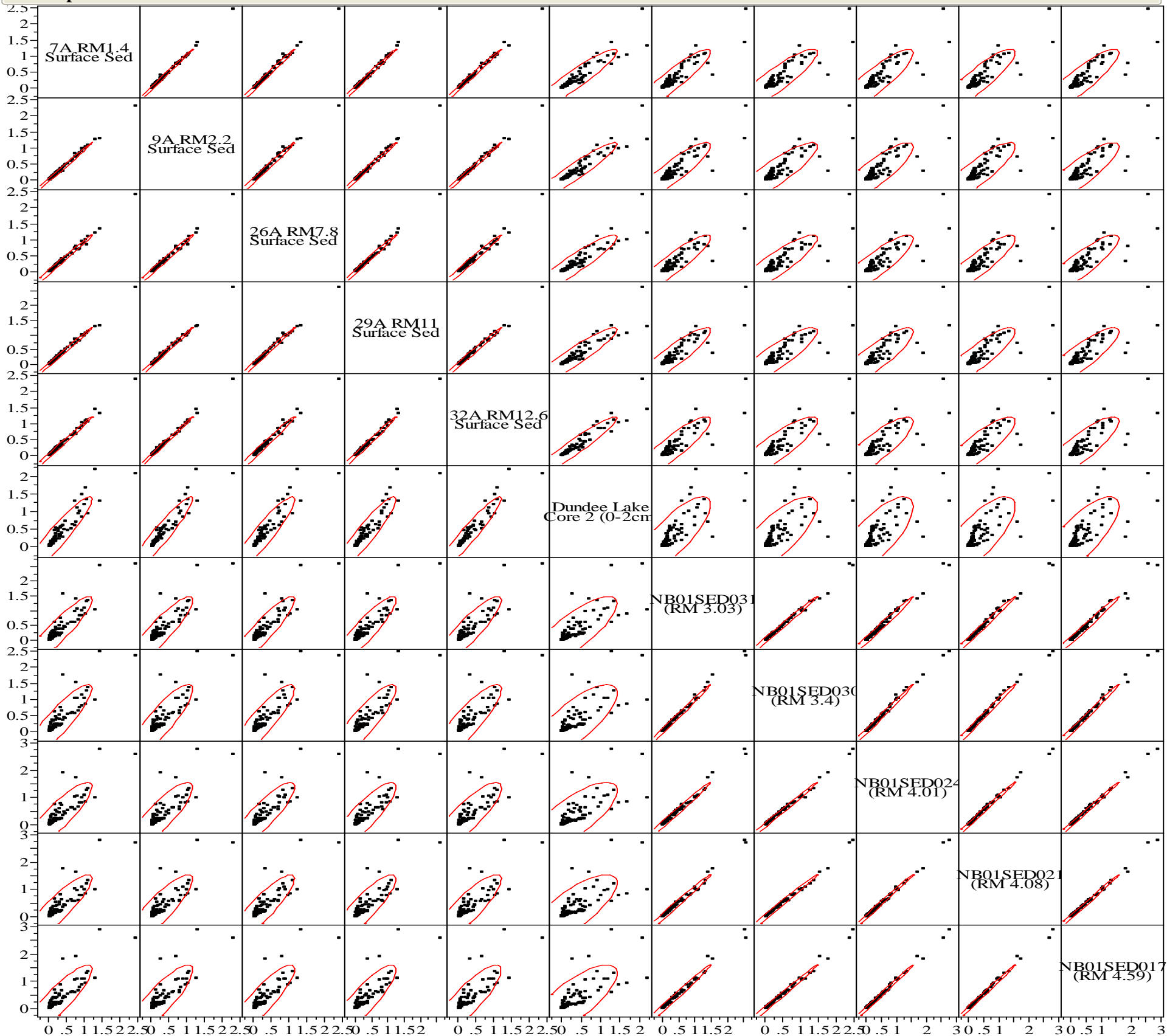
Figure 5-5

2009

Multivariate Correlations

	7A RM1.4 Surface Sediment	9A RM2.2 Surface Sediment	26A RM7.8 Surface Sediment	29A RM11 Surface Sediment	32A RM12.6 Surface Sediment	Dundee Dam (0-2cm)	NB01SED03 1 (RM-3.0)	NB01SED03 0 (RM-3.4)	NB01SED02 4 (RM-4.0)	NB01SED02 1 (RM-4.1)	NB01SED01 7 (RM-4.6)
7A RM1.4 Surface Sediment	1.0000	0.9979	0.9964	0.9973	0.9967	0.9348	0.9167	0.8917	0.8755	0.8862	0.8802
9A RM2.2 Surface Sediment	0.9979	1.0000	0.9951	0.9968	0.9977	0.9467	0.8973	0.8710	0.8524	0.8629	0.8575
26A RM7.8 Surface Sediment	0.9964	0.9951	1.0000	0.9962	0.9922	0.9291	0.9119	0.8873	0.8718	0.8845	0.8774
29A RM11 Surface Sediment	0.9973	0.9968	0.9962	1.0000	0.9954	0.9346	0.9046	0.8787	0.8614	0.8731	0.8650
32A RM12.6 Surface Sediment	0.9967	0.9977	0.9922	0.9954	1.0000	0.9555	0.8931	0.8658	0.8467	0.8573	0.8525
Dundee Dam (0-2cm)	0.9348	0.9467	0.9291	0.9346	0.9555	1.0000	0.8000	0.7711	0.7475	0.7531	0.7582
NB01SED031 (RM-3.0)	0.9167	0.8973	0.9119	0.9046	0.8931	0.8000	1.0000	0.9965	0.9943	0.9952	0.9938
NB01SED030 (RM-3.4)	0.8917	0.8710	0.8873	0.8787	0.8658	0.7711	0.9965	1.0000	0.9972	0.9961	0.9965
NB01SED024 (RM-4.0)	0.8755	0.8524	0.8718	0.8614	0.8467	0.7475	0.9943	0.9972	1.0000	0.9978	0.9980
NB01SED021 (RM-4.1)	0.8862	0.8629	0.8845	0.8731	0.8573	0.7531	0.9952	0.9961	0.9978	1.0000	0.9976
NB01SED017 (RM-4.6)	0.8802	0.8575	0.8774	0.8650	0.8525	0.7582	0.9938	0.9965	0.9980	0.9976	1.0000

Scatterplot Matrix



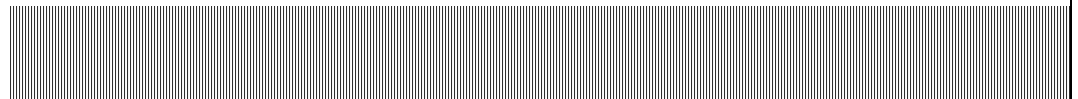
- Notes:
1. In this presentation, river miles for the Newark Bay sampling locations are assigned with respect to the distance from the mouth of the Lower Passaic River (RM0.0) and following the federal navigation channel.
 2. PCB Congeners Concentration Normalized to Congener 52

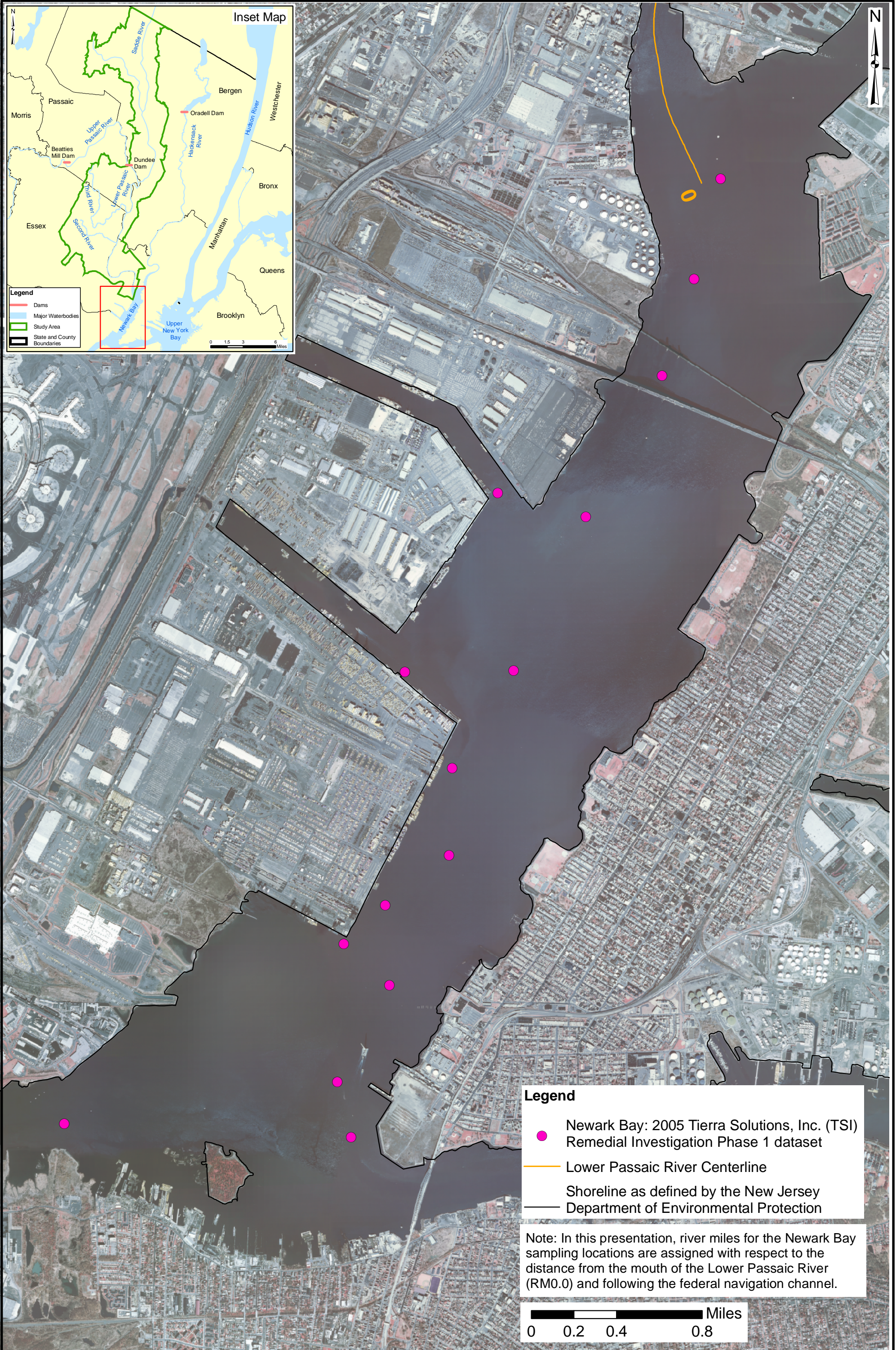
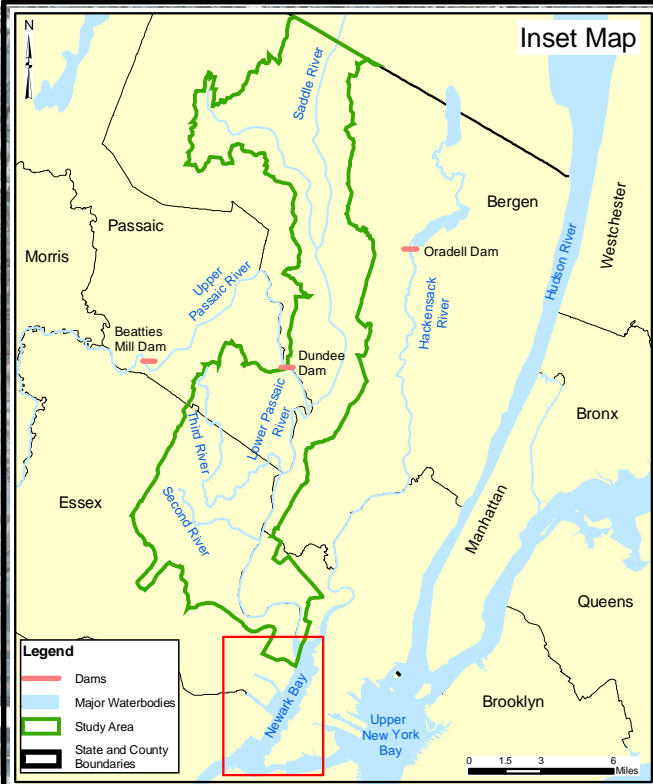
Correlation Among Sampling Locations for PCB Congeners in Dundee Dam, Lower Passaic River, and Newark Bay Surface Sediment

Figure 5-6

2009

Chapter 6 Figures





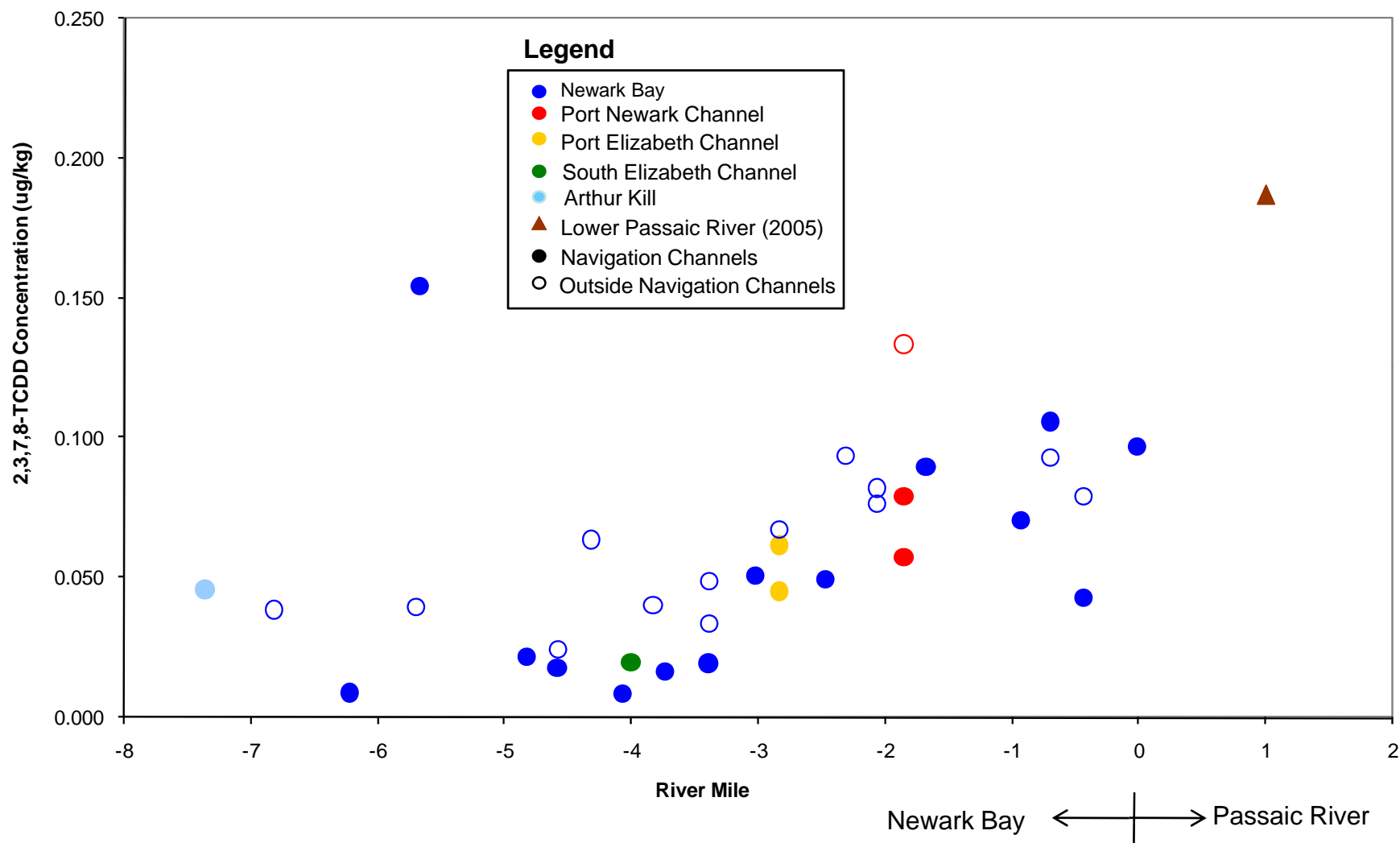
Locations of Newark Bay Samples Used In the Mass Balance Model

Lower Passaic River Restoration Project

Data Source: 2002 Aerial photographs from the New Jersey State data clearing house (<http://njgin.state.nj.us>).

Figure 6-1

April 2007

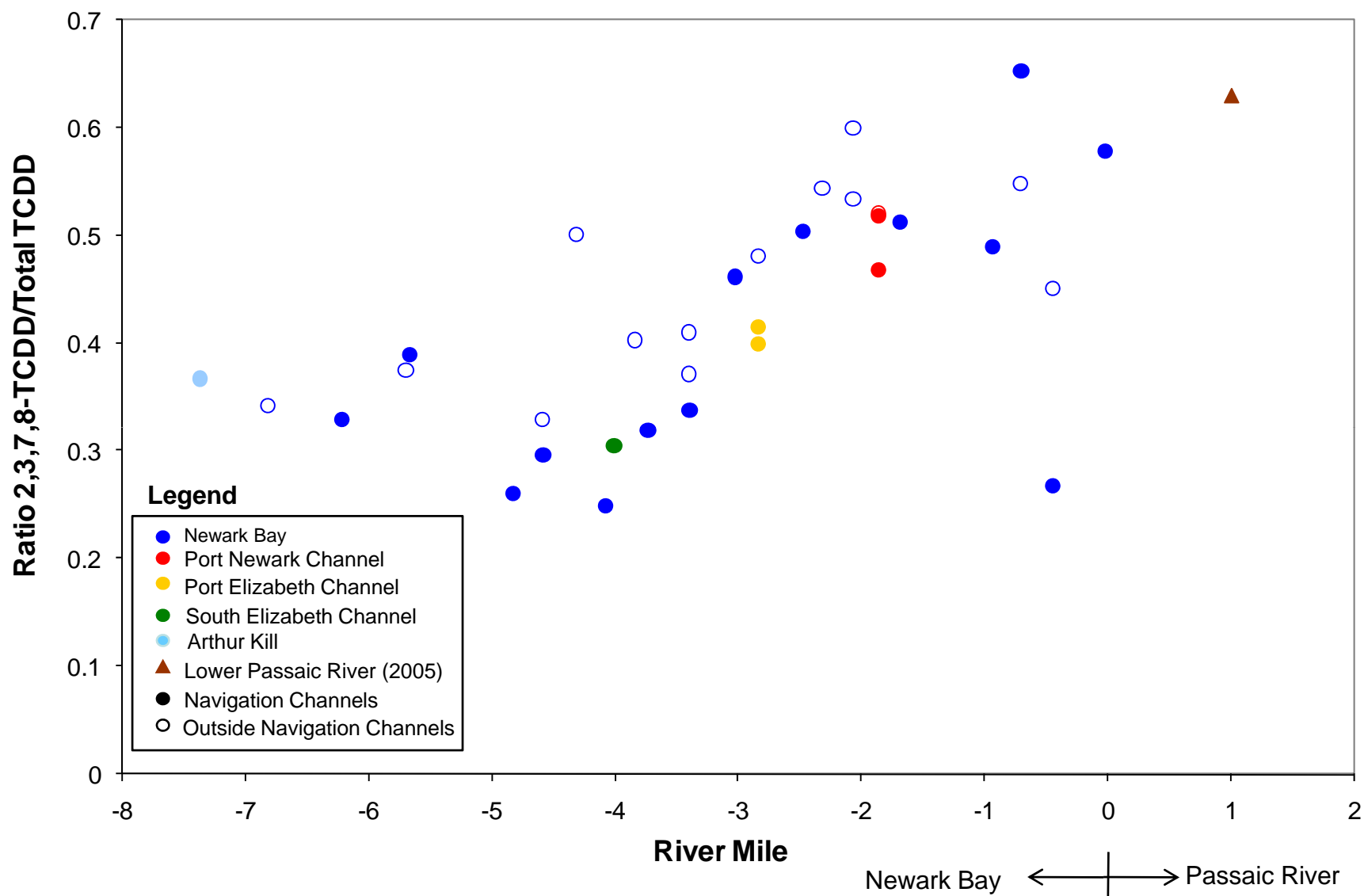


2,3,7,8-TCDD Surface Sediment Concentrations in Newark Bay Complex

Lower Passaic River Restoration Project

Figure 6-2a

2009

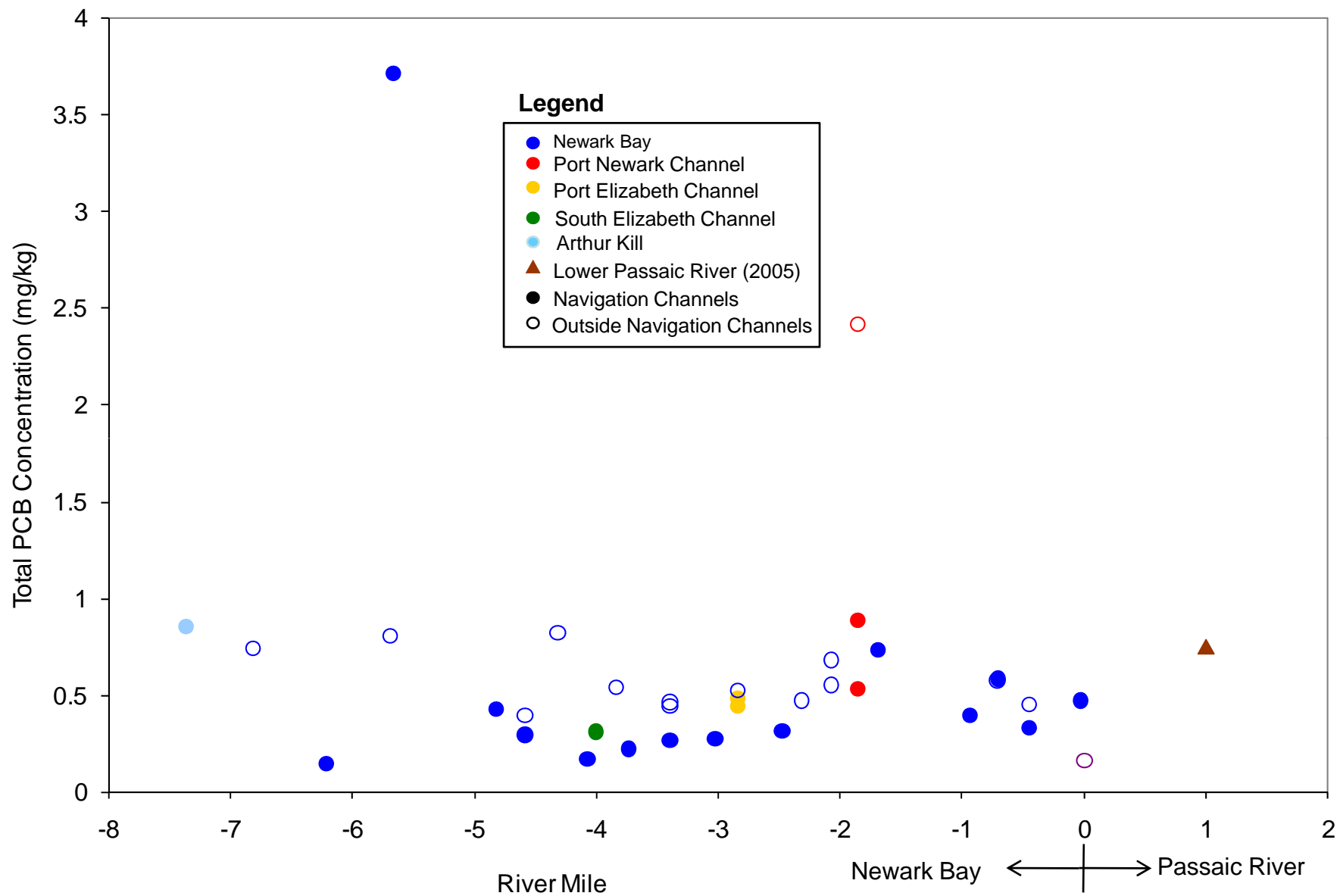


Ratio of 2,3,7,8-TCDD to Total TCDD Surface Sediments
Concentrations in Newark Bay Complex

Lower Passaic River Restoration Project

Figure 6-2b

2009

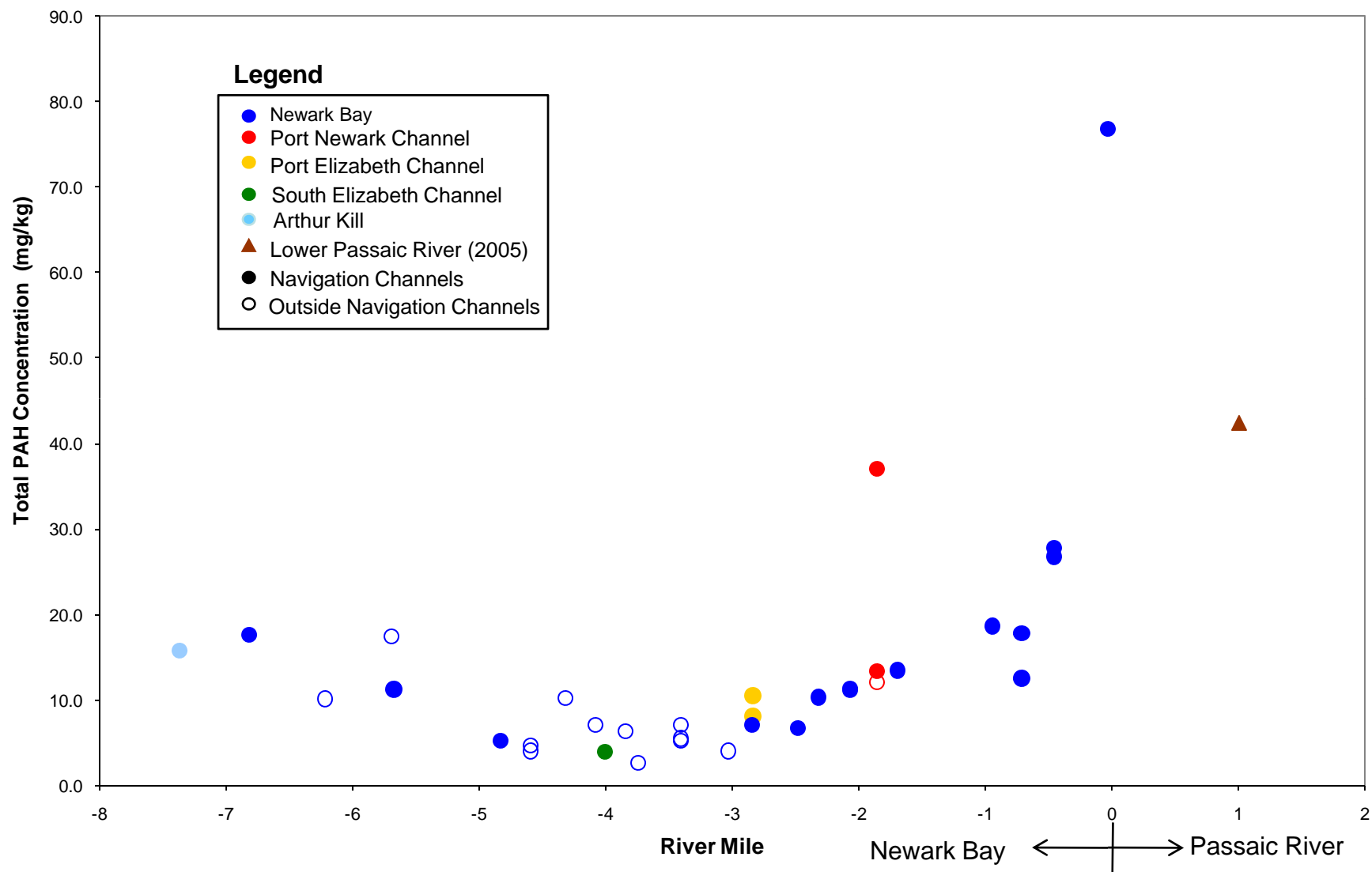


Total PCB Surface Sediments Concentrations in Newark Bay Complex

Lower Passaic River Restoration Project

Figure 6-2c

2009

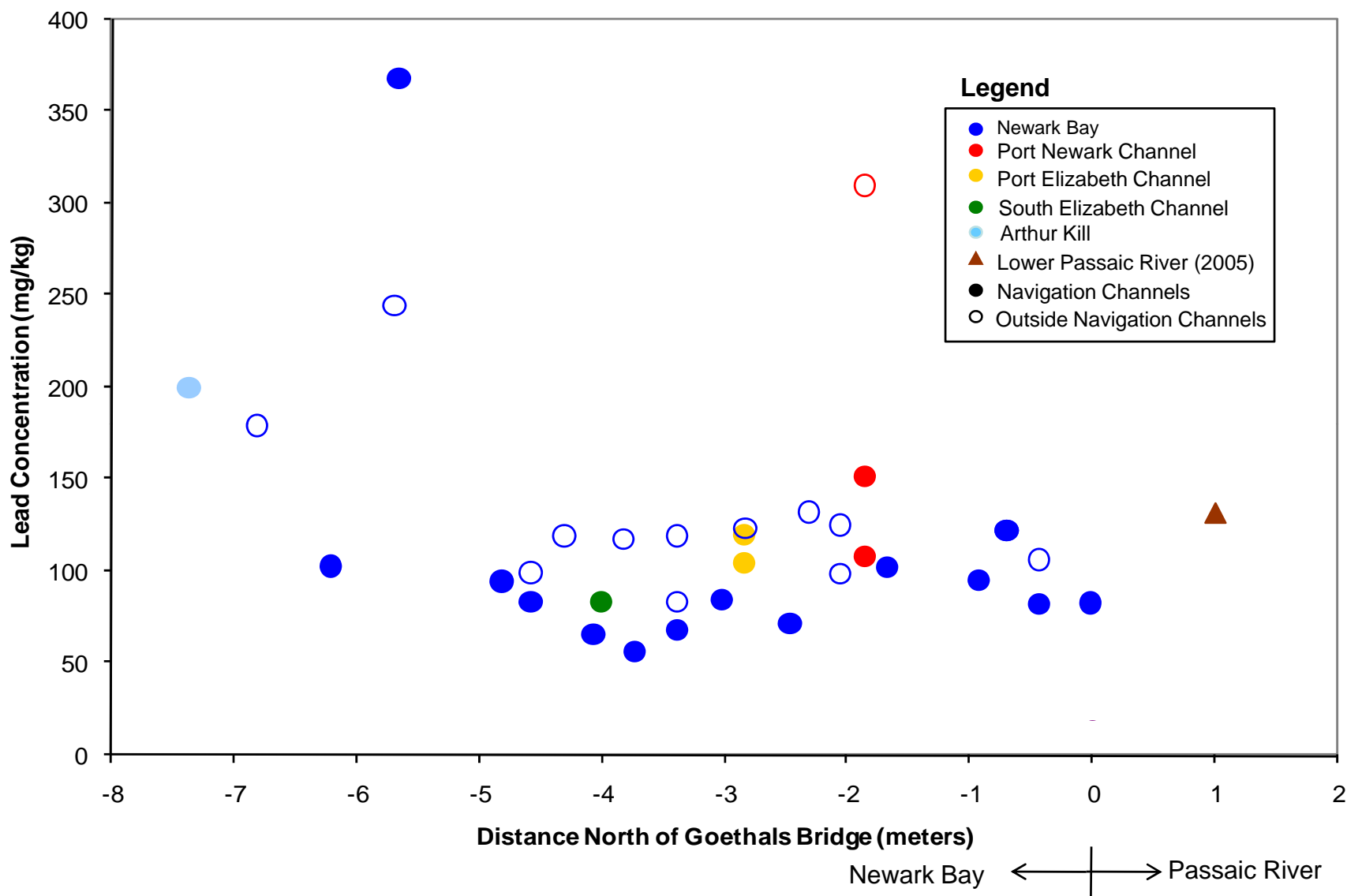


Total PAH Surface Sediments Concentrations in Newark Bay Complex

Lower Passaic River Restoration Project

Figure 6-2d

2009

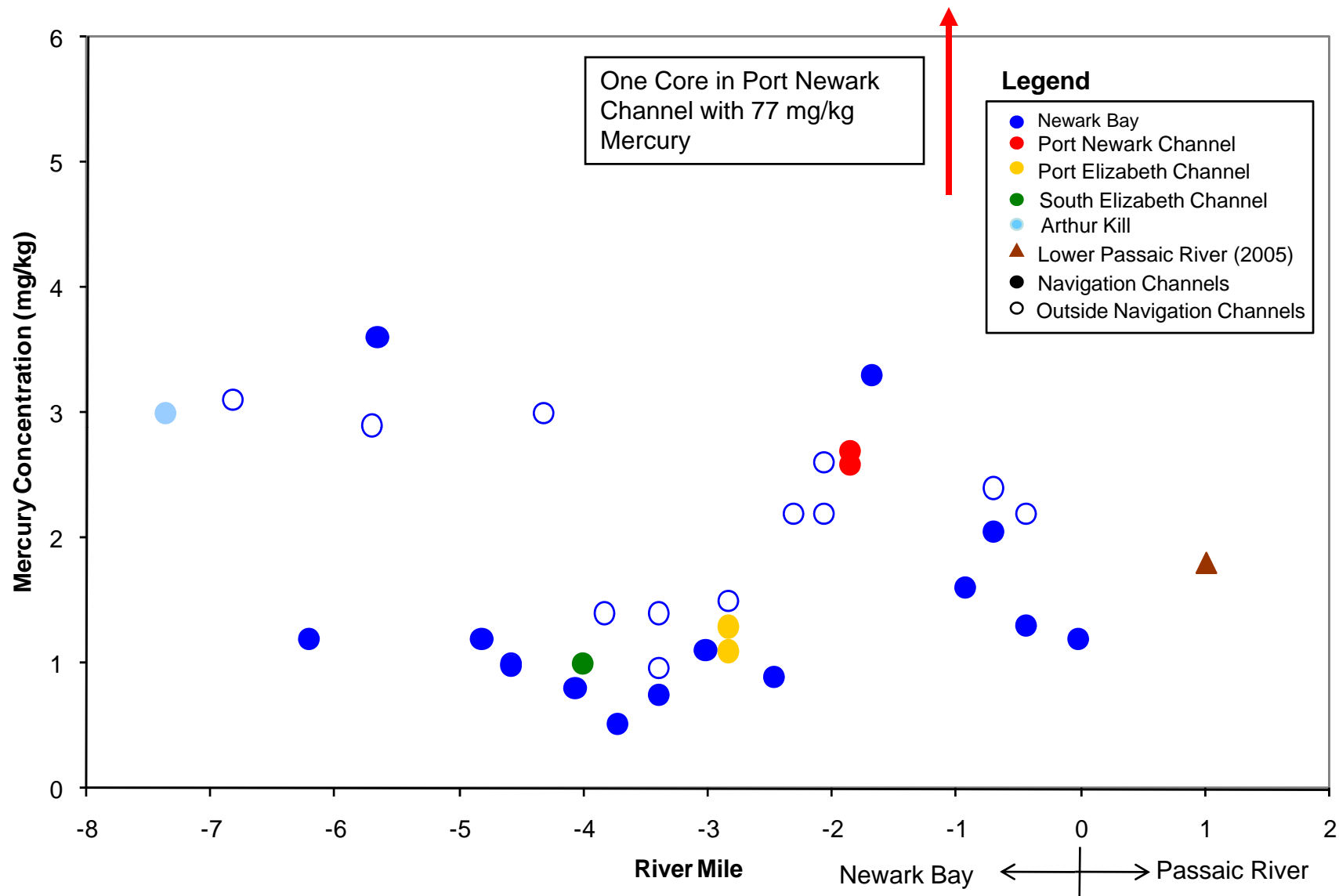


Lead Surface Sediment Concentrations in Newark Bay Complex

Lower Passaic River Restoration Project

Figure 6-2e

2009



Mercury Surface Sediment Concentrations in Newark Bay Complex

Lower Passaic River Restoration Project

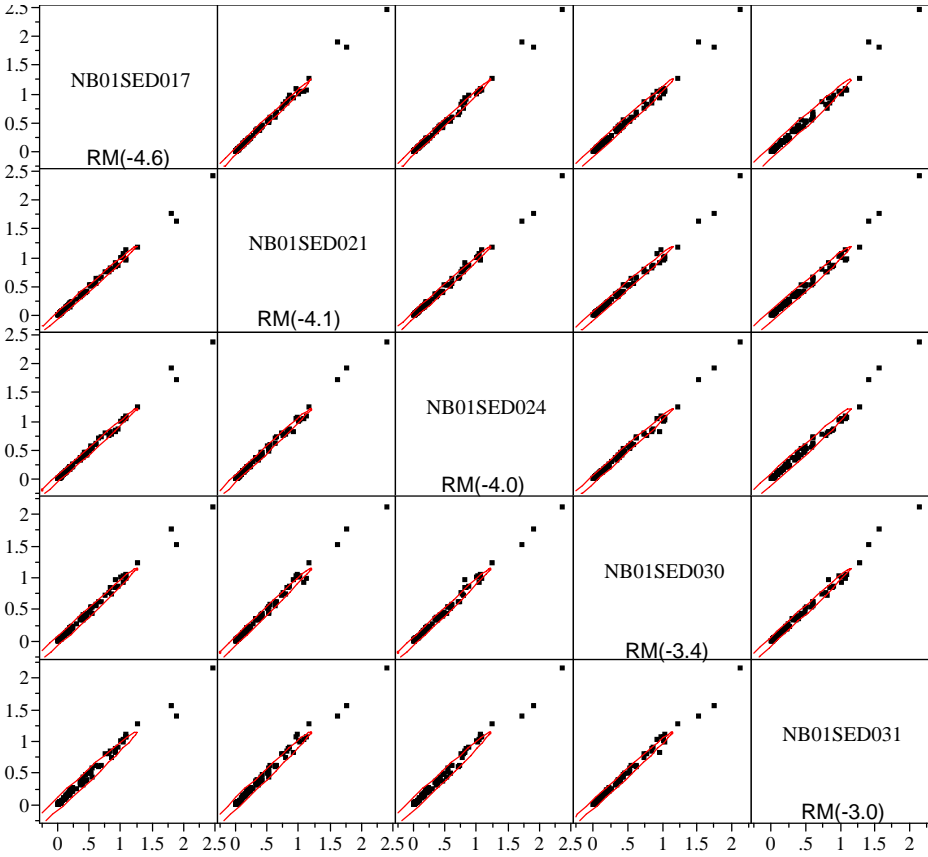
Figure 6-2f

2009

Multivariate Correlations

	NB01SED017 RM(-4.6)	NB01SED021 RM(-4.1)	NB01SED024 RM(-4.0)	NB01SED030 RM(-3.4)	NB01SED031 RM(-3.0)
NB01SED017 RM(-4.6)	1.0000	0.9978	0.9976	0.9961	0.9931
NB01SED021 RM(-4.1)	0.9978	1.0000	0.9976	0.9962	0.9941
NB01SED024 RM(-4.0)	0.9976	0.9976	1.0000	0.9969	0.9934
NB01SED030 RM(-3.4)	0.9961	0.9962	0.9969	1.0000	0.9964
NB01SED031 (-3.0)	0.9931	0.9941	0.9934	0.9964	1.0000

Scatterplot Matrix



Legend

- PCB Congeners Concentration Normalized to Congener 52

Notes

In this presentation, river miles for the Newark Bay sampling locations are assigned with respect to the distance from the mouth of the Lower Passaic River (RM0.0) and following the federal navigation channel.

Data Source: 2005 Tierra Solutions, Inc. (TSI) Remedial Investigation Phase 1 dataset

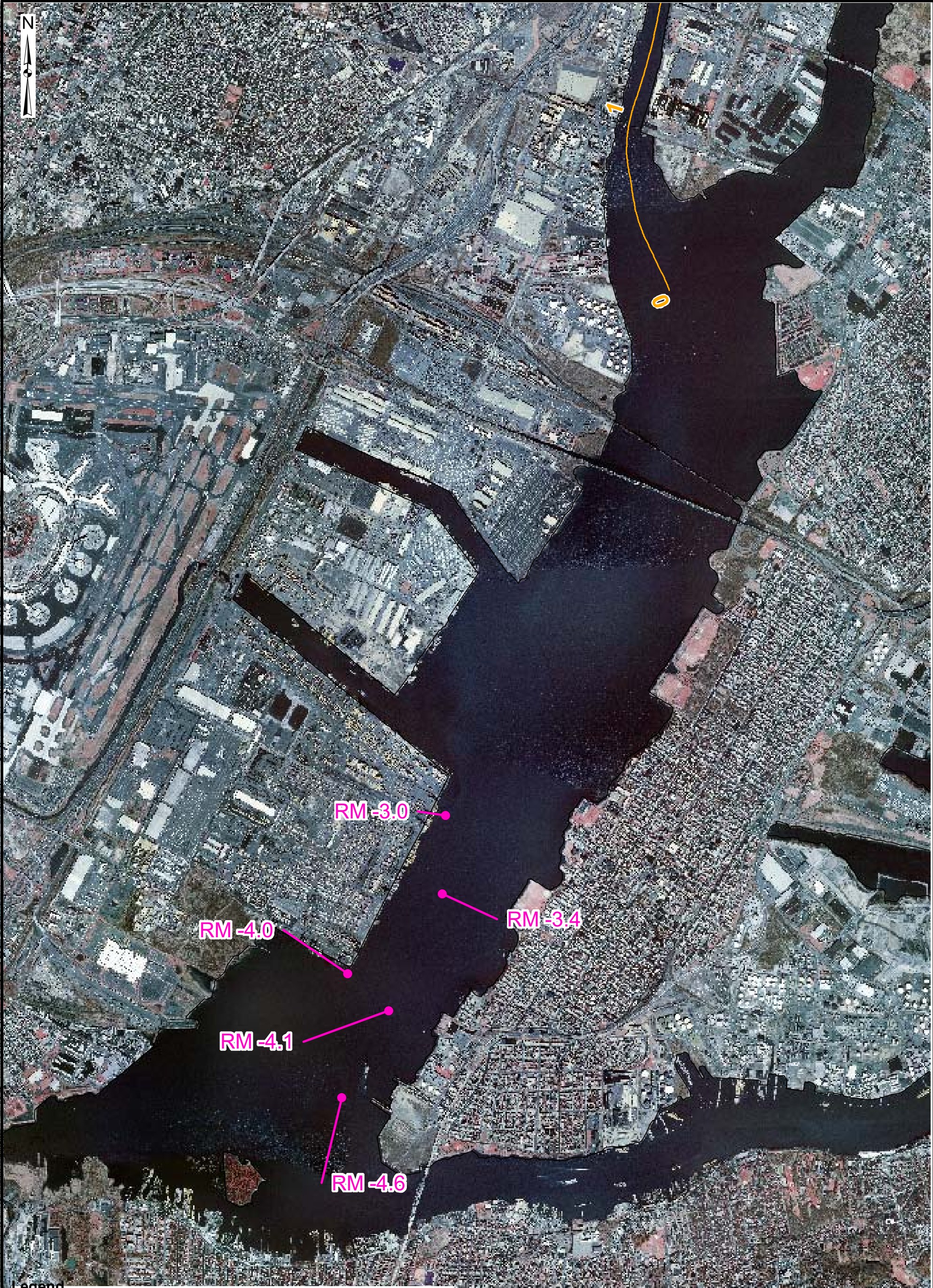


Correlation Among the Sampling Locations of PCB Congeners in Southern Newark Bay Samples

Lower Passaic River Restoration Project

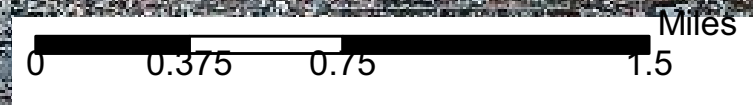
Figure 6-3

2009



Legend

- Newark Bay:2005 Tierra Solutions, Inc. (TSI)
- Lower Passaic River Centerline (1/10-Mile River Segments)
- Shoreline as defined by the New Jersey Department of Environmental Protection



Note: In this presentation, river miles for the Newark Bay sampling locations are assigned with respect to the distance from the mouth of the Lower Passaic River (RM0.0) and following the federal navigation channel.

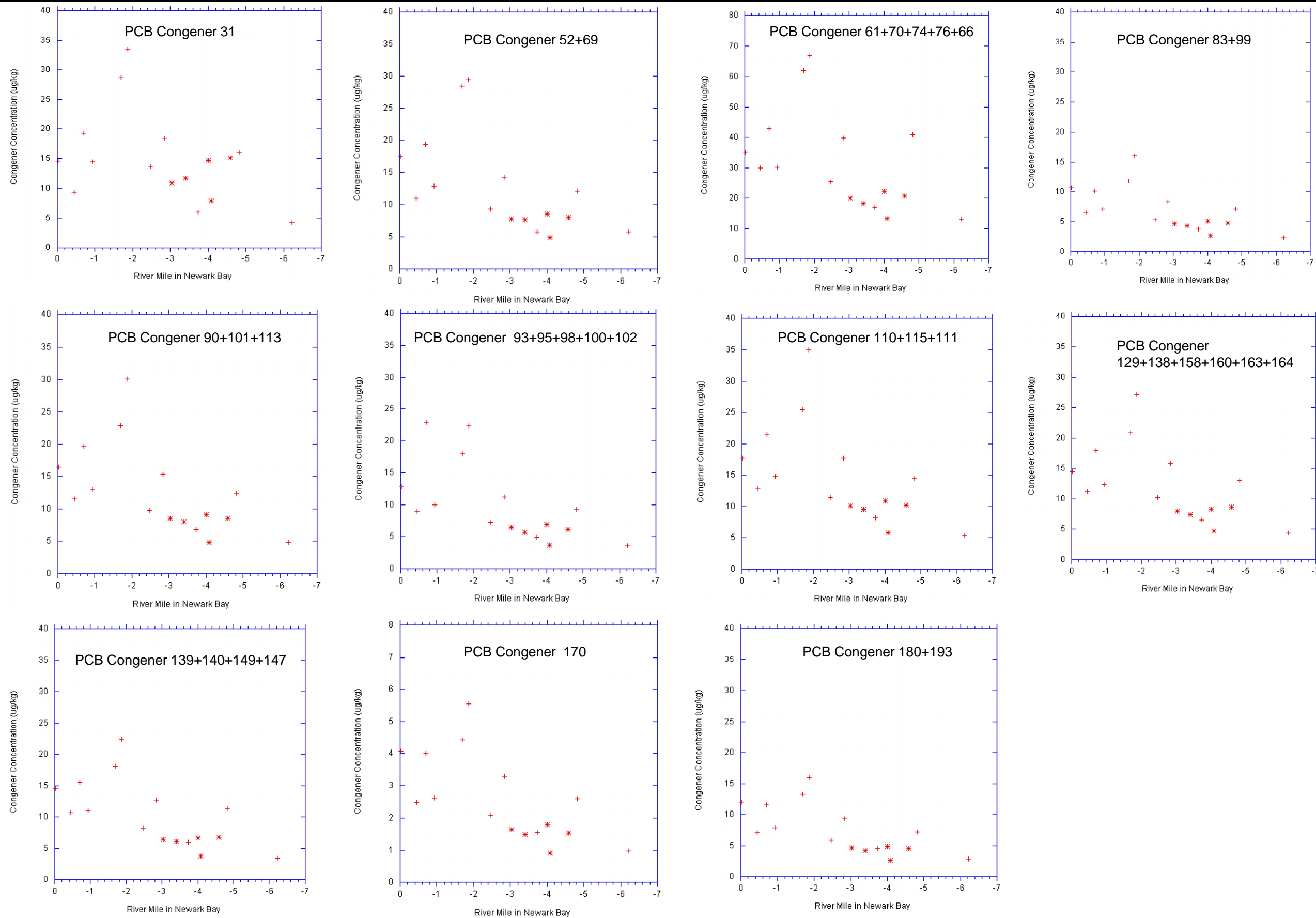


Site Location Map of Selected Southern Locations in Newark Bay
Lower Passaic River Restoration Project

Data Source: 2002 Aerial photographs from the New Jersey State data clearing house (<http://njgin.state.nj.us>).

Figure 6-4

2009



Legend

PCB Congener
Concentration at
Newark Bay
Sampling Location

Highlighted
Southern Sampling
Locations

Notes

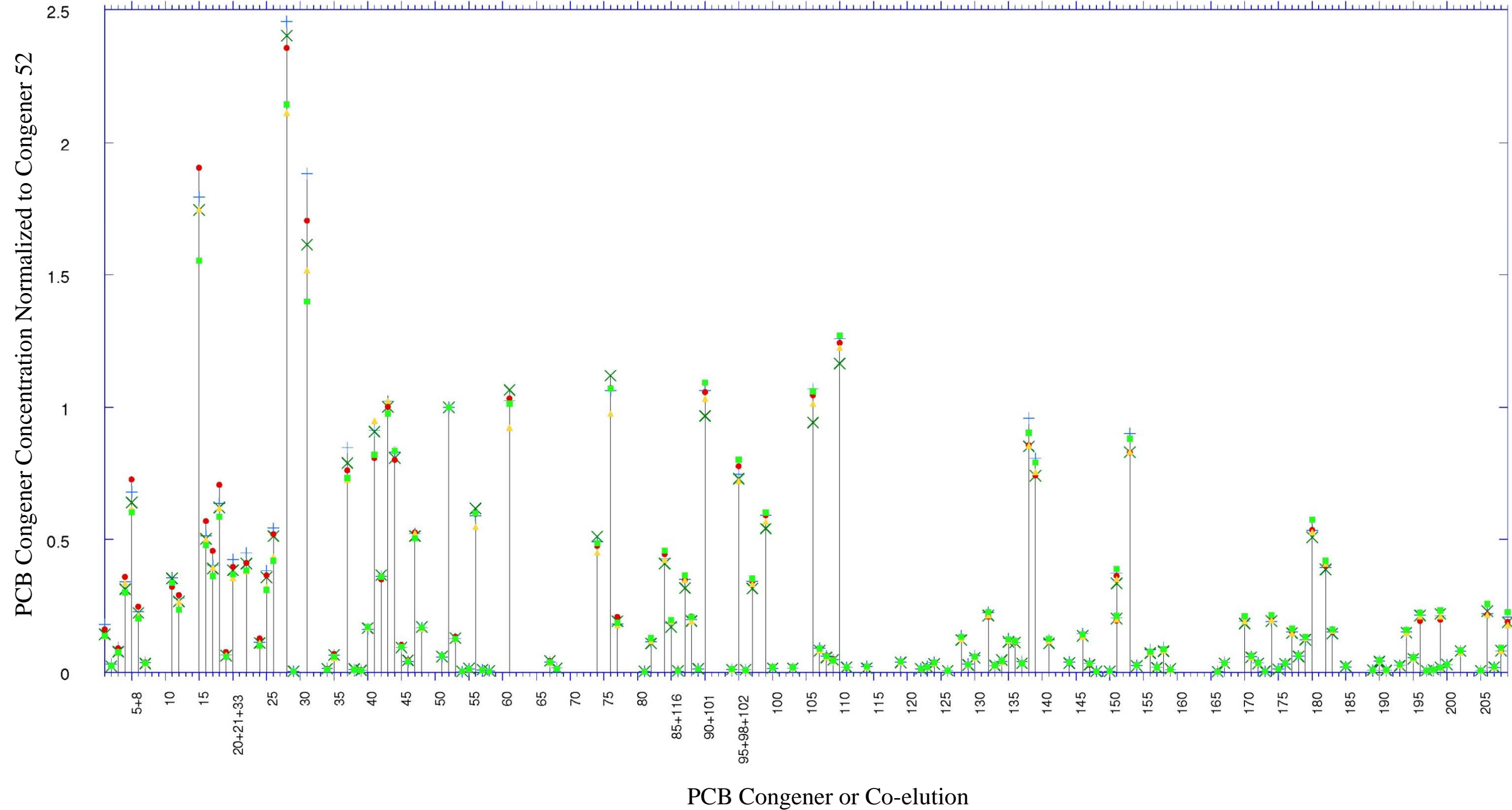


PCB Congener Surface Sediment Concentrations in Newark Bay

Lower Passaic River Restoration Project

Figure 6-5

2009



PCB Congener Concentration Normalized to Congener 52 Pattern for Southern Locations in Newark Bay

Lower Passaic River Restoration Project

Figure 6-6

2009

Multivariate Correlations

	NB01SED061 (RM-0.45)	NB01SED052 (RM-0.71)	NB01SED055 (RM-0.94)	NB01SED046 (RM-1.7)	NB01SED047 (RM-1.9)
NB01SED061 (RM-0.45)	1.0000	0.9906	0.9830	0.9704	0.9778
NB01SED052 (RM-0.71)	0.9906	1.0000	0.9882	0.9796	0.9831
NB01SED055 (RM-0.94)	0.9830	0.9882	1.0000	0.9852	0.9967
NB01SED046 (RM-1.7)	0.9704	0.9796	0.9852	1.0000	0.9880
NB01SED047 (RM-1.9)	0.9778	0.9831	0.9967	0.9880	1.0000

Legend

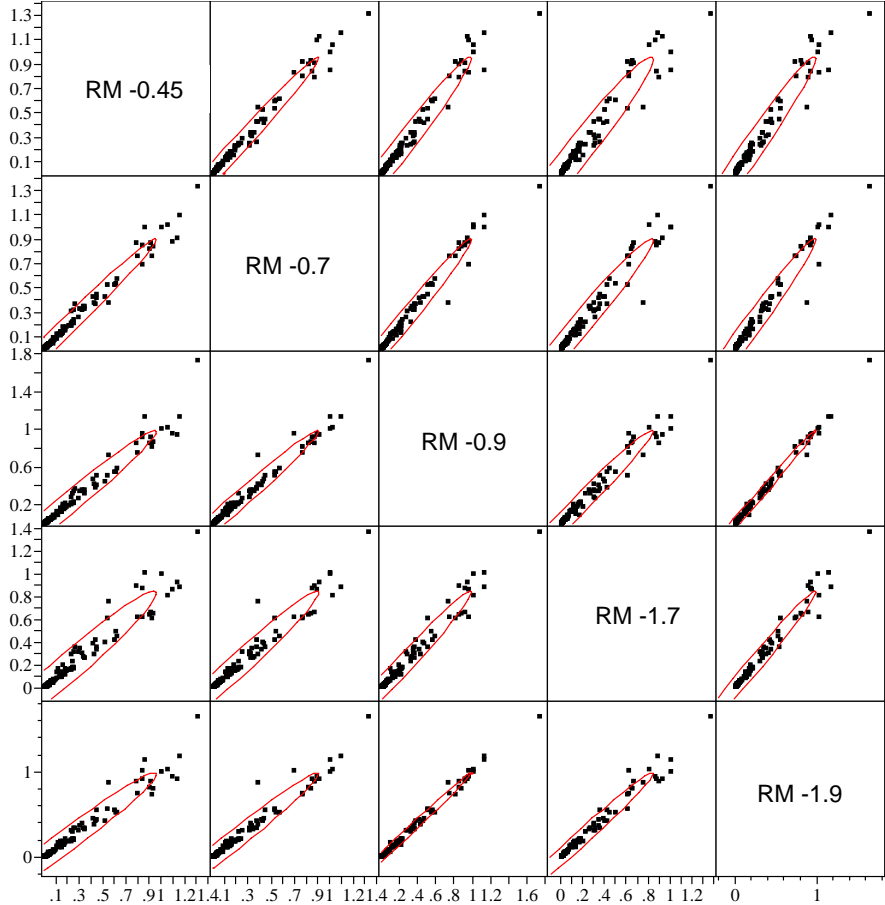
- PCB Congeners
Concentration Normalized
to Congener 52

Notes

In this presentation, river miles for the Newark Bay sampling locations are assigned with respect to the distance from the mouth of the Lower Passaic River (RM0.0) and following the federal navigation channel.

Data Source: 2005 Tierra Solutions, Inc. (TSI) Remedial Investigation Phase 1 dataset.

Scatterplot Matrix



Correlation Among Sampling Locations of PCB Congeners Concentration Normalized to Congener 52 in Northern Newark Bay Samples

Lower Passaic River Restoration Project

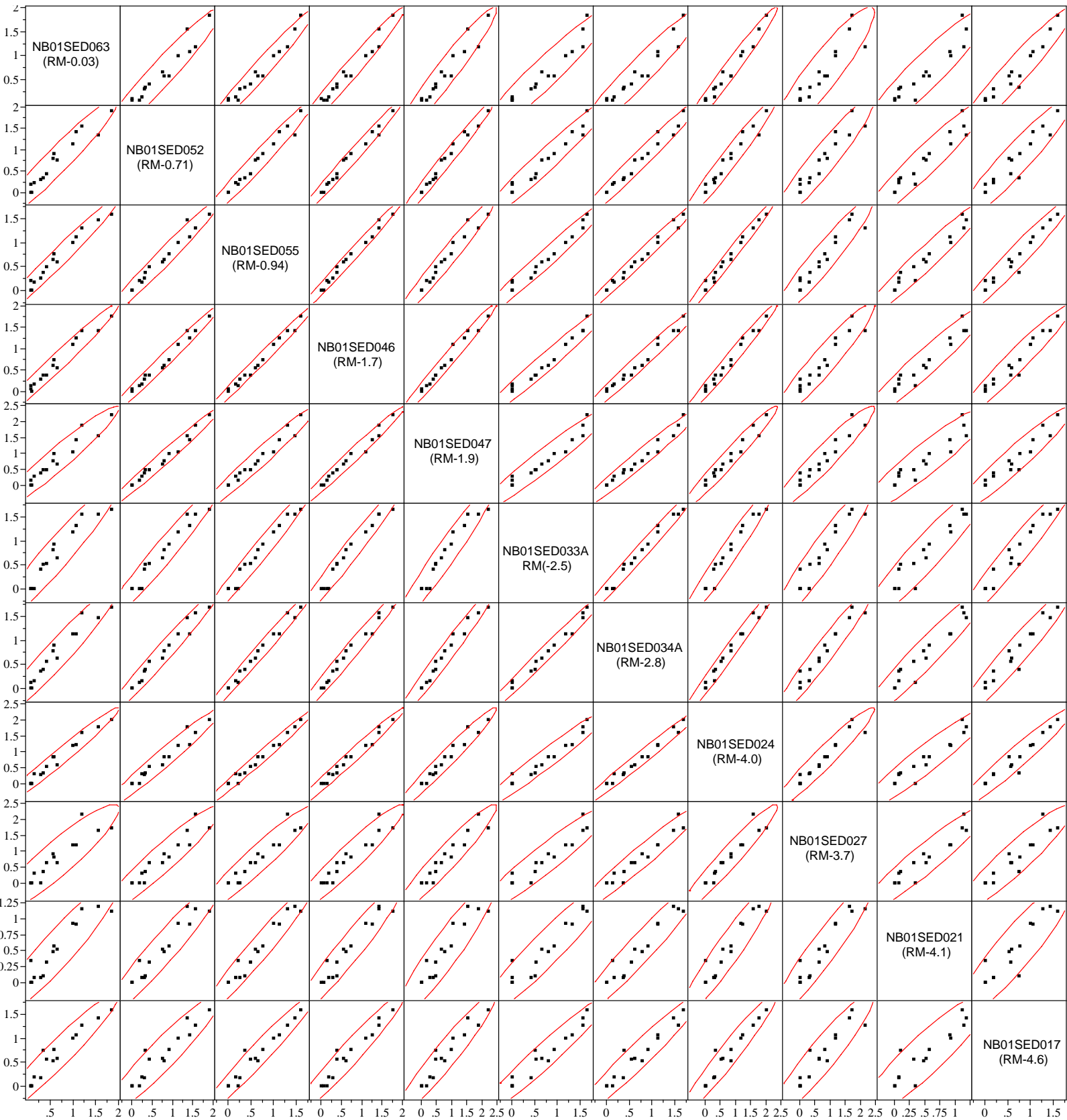
Figure 6-7

2009

Multivariate Correlations

	NB01SED06 3 (RM-0.03)	NB01SED05 2 (RM-0.71)	NB01SED05 5 (RM-0.94)	NB01SED04 6 (RM-1.7)	NB01SED04 7 (RM-1.9)	NB01SED03 3A RM(-2.5)	NB01SED03 4A (RM-2.8)	NB01SED02 4 (RM-4.0)	NB01SED02 7 (RM-3.7)	NB01SED02 1 (RM-4.1)	NB01SED01 7 (RM-4.6)
NB01SED063 (RM-0.03)	1.0000	0.9625	0.9811	0.9820	0.9627	0.9565	0.9634	0.9823	0.9171	0.9360	0.9594
NB01SED052 (RM-0.71)	0.9625	1.0000	0.9823	0.9899	0.9877	0.9740	0.9831	0.9752	0.9485	0.9570	0.9474
NB01SED055 (RM-0.94)	0.9811	0.9823	1.0000	0.9923	0.9780	0.9831	0.9904	0.9903	0.9536	0.9716	0.9725
NB01SED046 (RM-1.7)	0.9820	0.9899	0.9923	1.0000	0.9875	0.9812	0.9866	0.9872	0.9508	0.9615	0.9678
NB01SED047 (RM-1.9)	0.9627	0.9877	0.9780	0.9875	1.0000	0.9673	0.9821	0.9771	0.9534	0.9349	0.9562
NB01SED033 A RM(-2.5)	0.9565	0.9740	0.9831	0.9812	0.9673	1.0000	0.9904	0.9747	0.9505	0.9479	0.9685
NB01SED034 A (RM-2.8)	0.9634	0.9831	0.9904	0.9866	0.9821	0.9904	1.0000	0.9880	0.9708	0.9612	0.9651
NB01SED024 (RM-4.0)	0.9823	0.9752	0.9903	0.9872	0.9771	0.9747	0.9880	1.0000	0.9625	0.9490	0.9663
NB01SED027 (RM-3.7)	0.9171	0.9485	0.9536	0.9508	0.9534	0.9505	0.9708	0.9625	1.0000	0.9450	0.9345
NB01SED021 (RM-4.1)	0.9360	0.9570	0.9716	0.9615	0.9349	0.9479	0.9612	0.9490	0.9450	1.0000	0.9128
NB01SED01 7 (RM-4.6)	0.9594	0.9474	0.9725	0.9678	0.9562	0.9685	0.9651	0.9663	0.9345	0.9128	1.0000

Scatterplot Matrix



Legend

● PAH Compounds
Normalized to
Dieldrin

Notes

PAH Compounds
normalized to dieldrin.

In this presentation,
river miles for the
Newark Bay sampling
locations are assigned
with respect to the
distance from the
mouth of the Lower
Passaic River (RM0.0)
and following the
federal navigation
channel.

Data Source:2005
Tierra Solutions, Inc.
(TSI) Remedial
Investigation Phase 1
dataset.

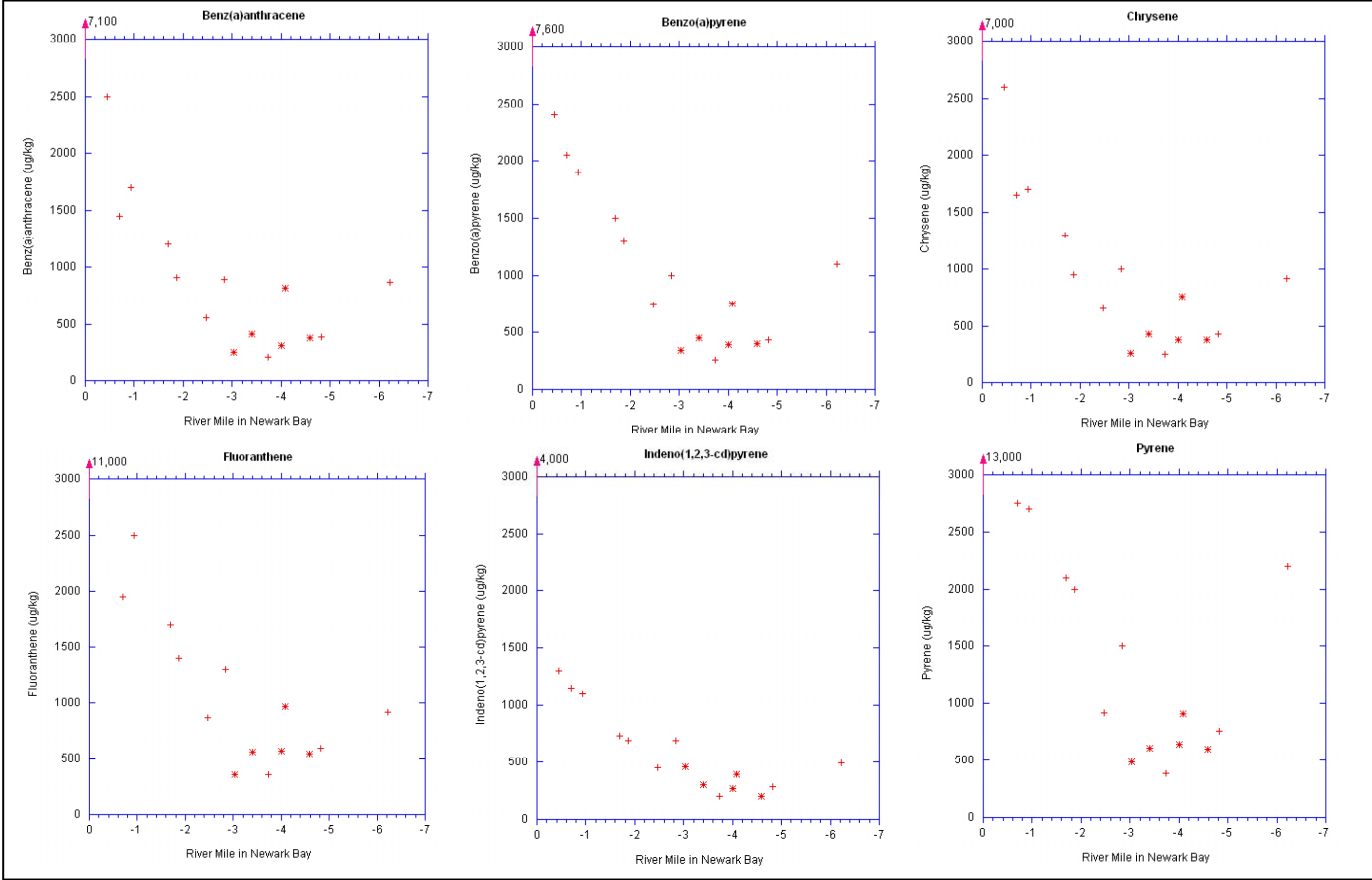


Correlation Among Sampling Locations of PAH
Compounds in Newark Bay Samples

Lower Passaic River Restoration Project

Figure 6-8

2009



Legend

PAH Compounds
Concentration at
Newark Bay
Sampling Location

Highlighted
Southern Sampling
Locations

Notes

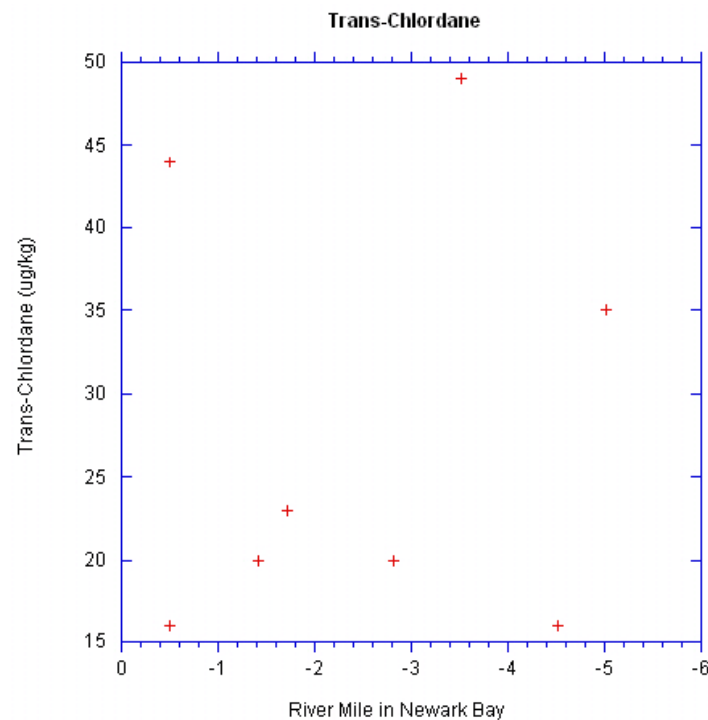
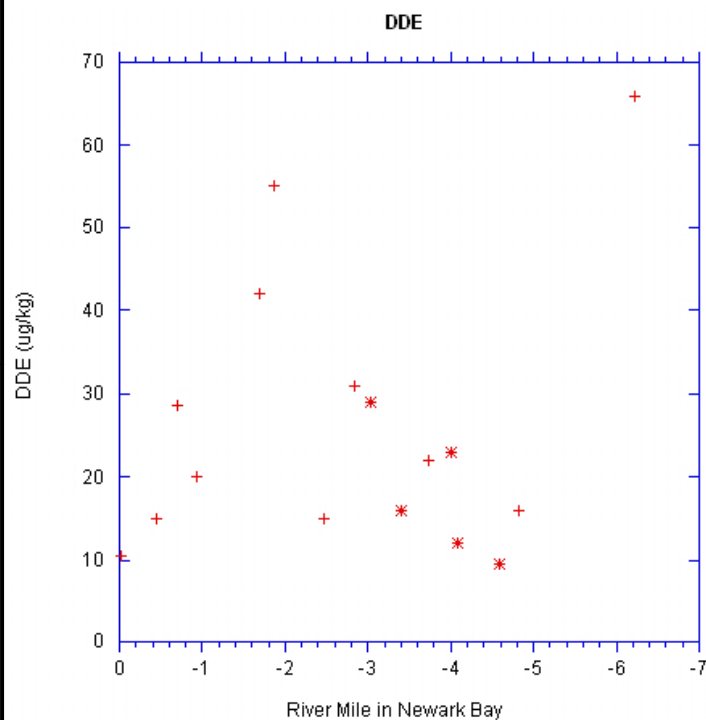


PAH Compounds Surface Sediment Concentrations in Newark Bay

Lower Passaic River Restoration Project

Figure 6-9

2009



Legend

Pesticides
+ Concentration at Newark Bay Sampling Location

x Highlighted Southern Sampling Locations

Notes

Negative River Mile represents the distance from the mouth of the Lower Passaic River into Newark Bay following the federal navigation channel.

DDE represents only 4,4'-isomer.

Plot only shows the selected 16 depositional locations that are located in the federal navigation channel.

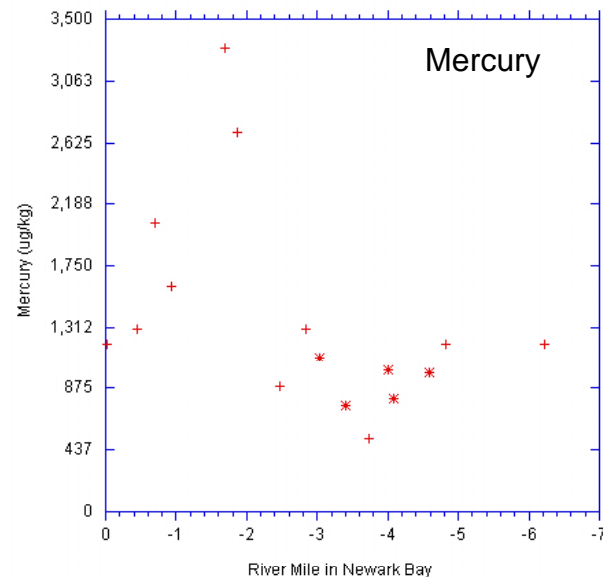


Pesticides Surface Sediment Concentrations in Newark Bay

Lower Passaic River Restoration Project

Figure 6-10

2009



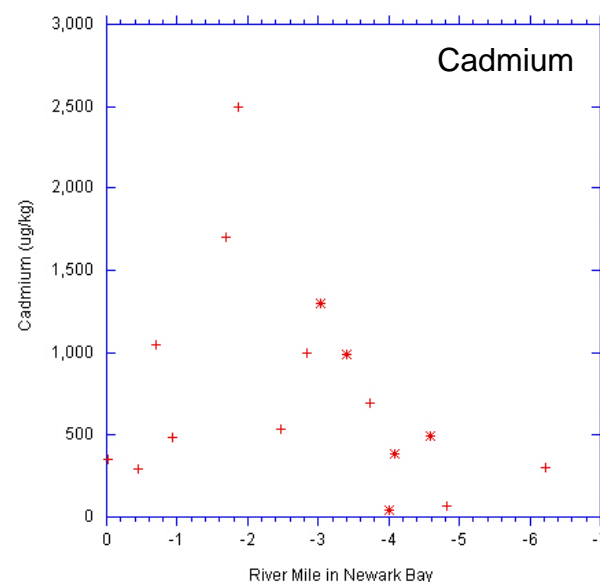
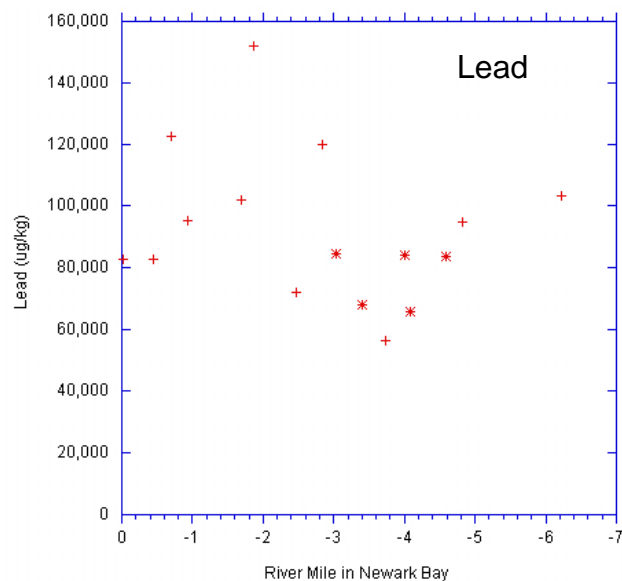
Legend

- Metal
- + Concentration at Newark Bay Sampling Location
- Highlighted Southern Sampling Locations
- x Highlighted Southern Sampling Locations

Notes

Negative River Mile represents the distance from the mouth of the Lower Passaic River into Newark Bay following the federal navigation channel.

Plot only shows the selected 16 depositional locations that are located in the federal navigation channel.

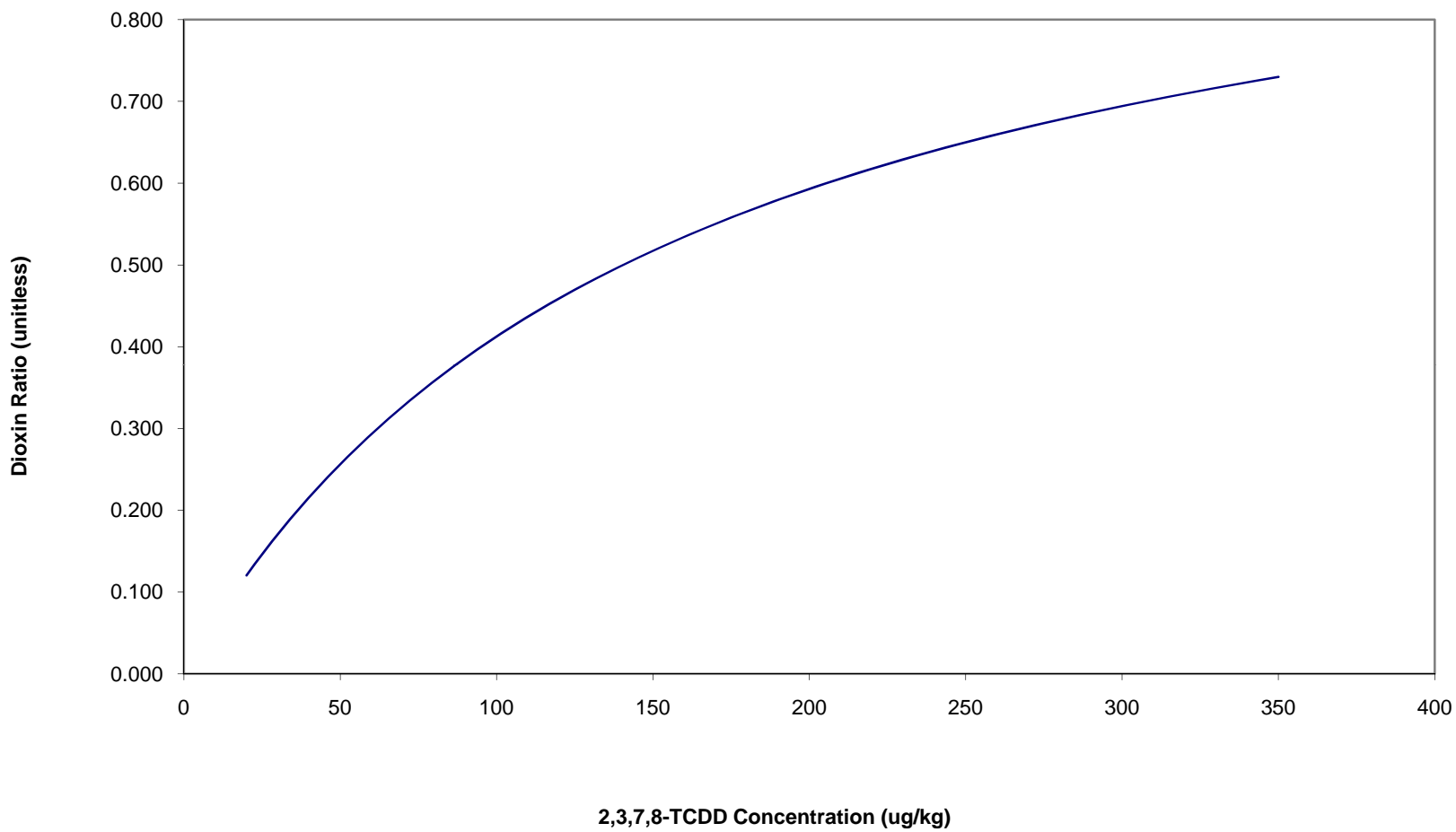


Metal Surface Sediment Concentrations in Newark Bay

Lower Passaic River Restoration Project

Figure 6-11

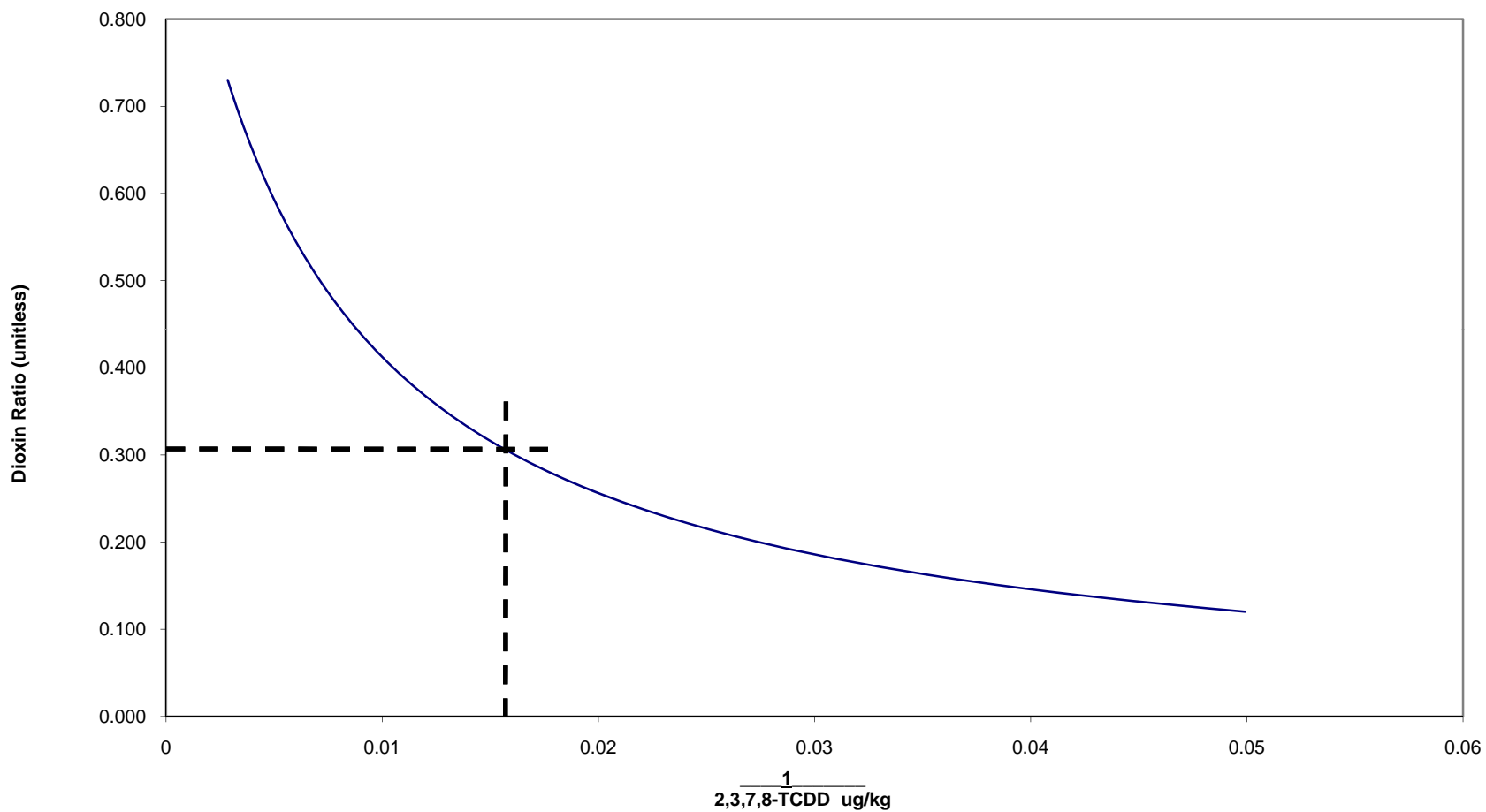
2009



**Example Two-End-Member
Mixing Curve**
Lower Passaic River Restoration Project

Figure 6-12

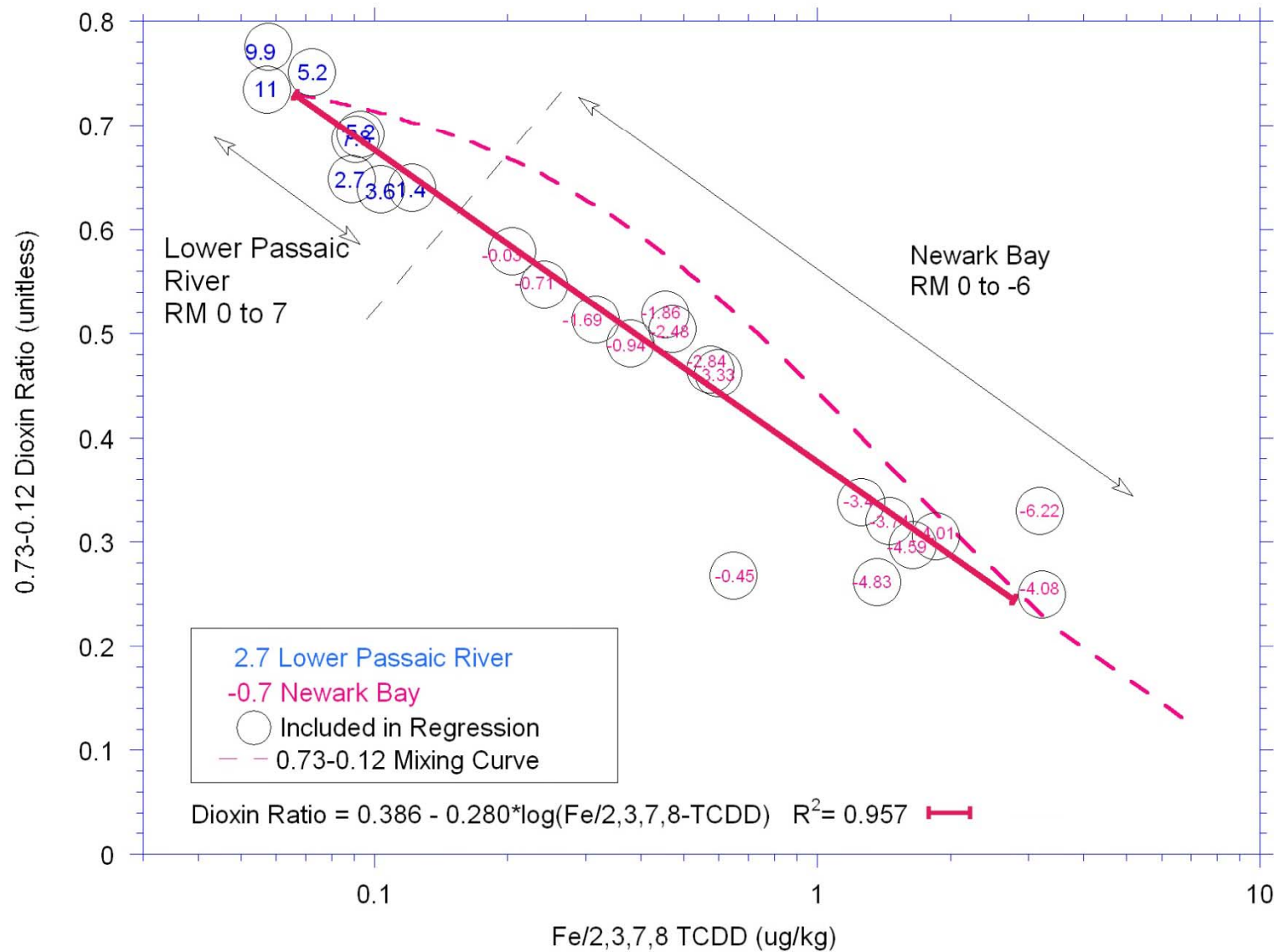
2009



Example Mixing Curve With
Reciprocal Concentration
Lower Passaic River Restoration Project

Figure 6-13

2009

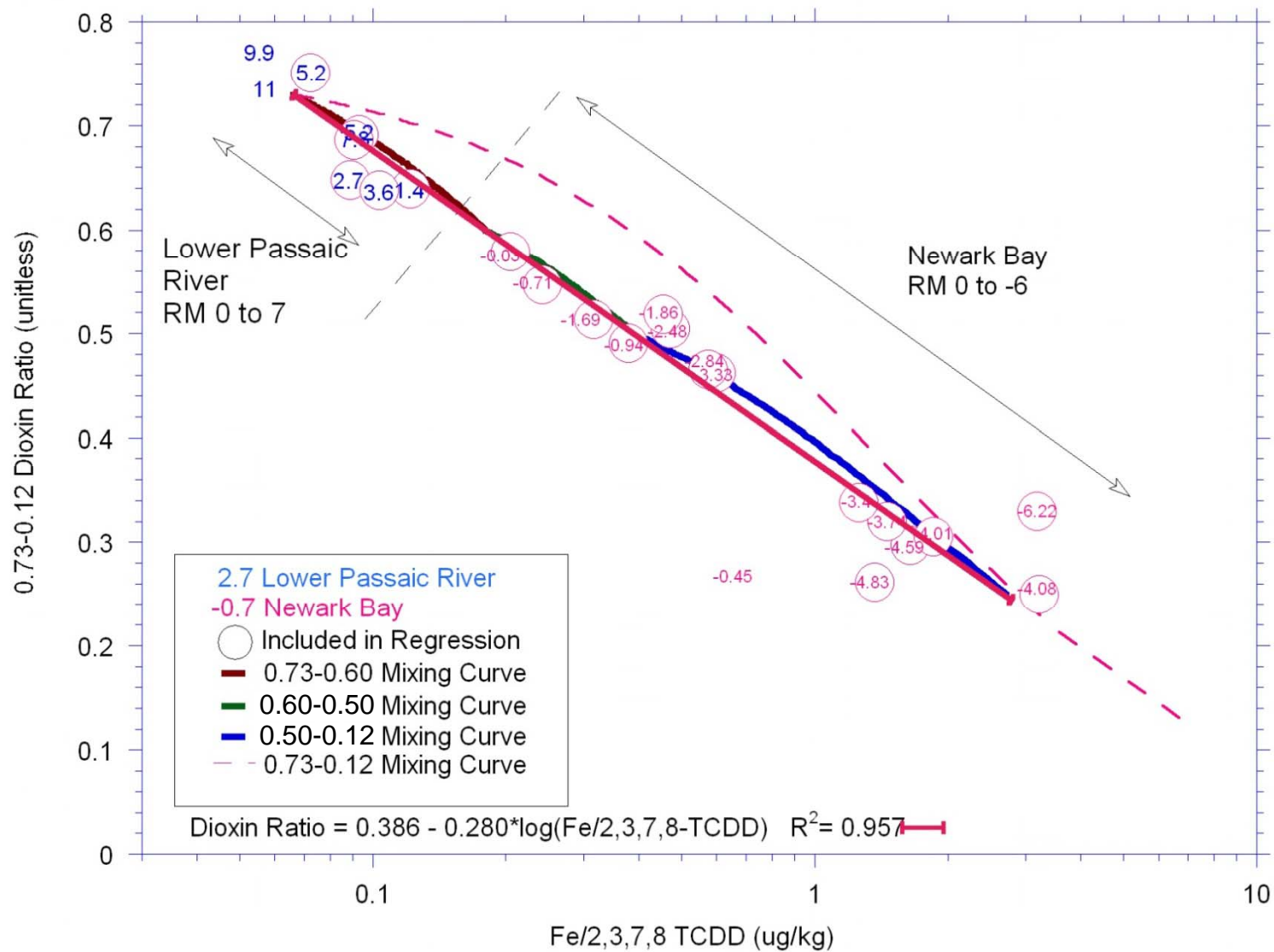


Dioxin Results and Two-End-Member Mixing Curve for the Lower Passaic River

Lower Passaic River Restoration Project

Figure 6-14

2009

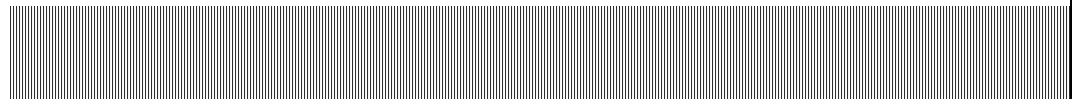


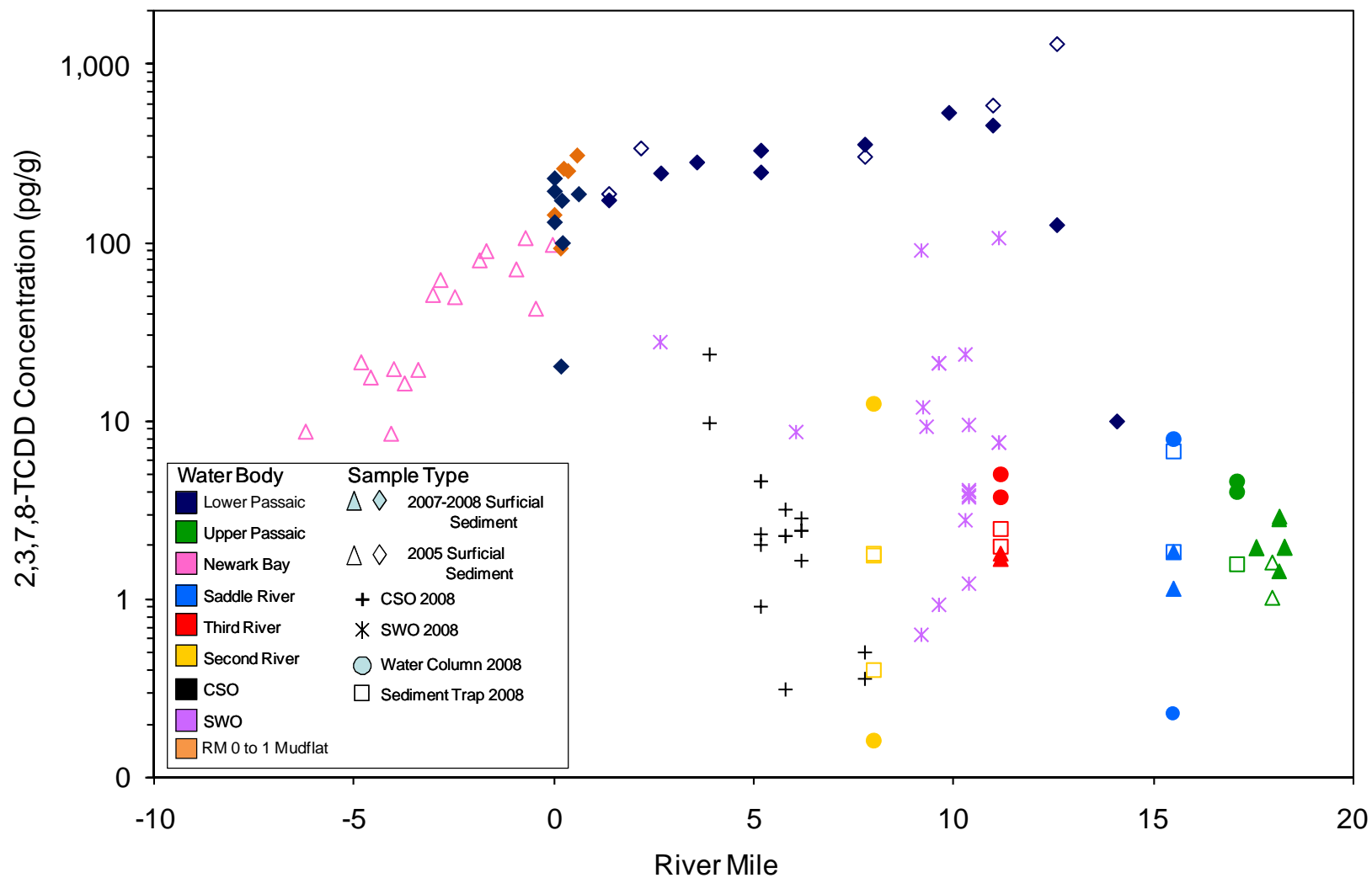
**Dioxin Results and Multiple Mixing Curves for
the Lower Passaic River and Newark Bay**
Lower Passaic River Restoration Project

Figure 6-15

2009

Chapter 7 Figures



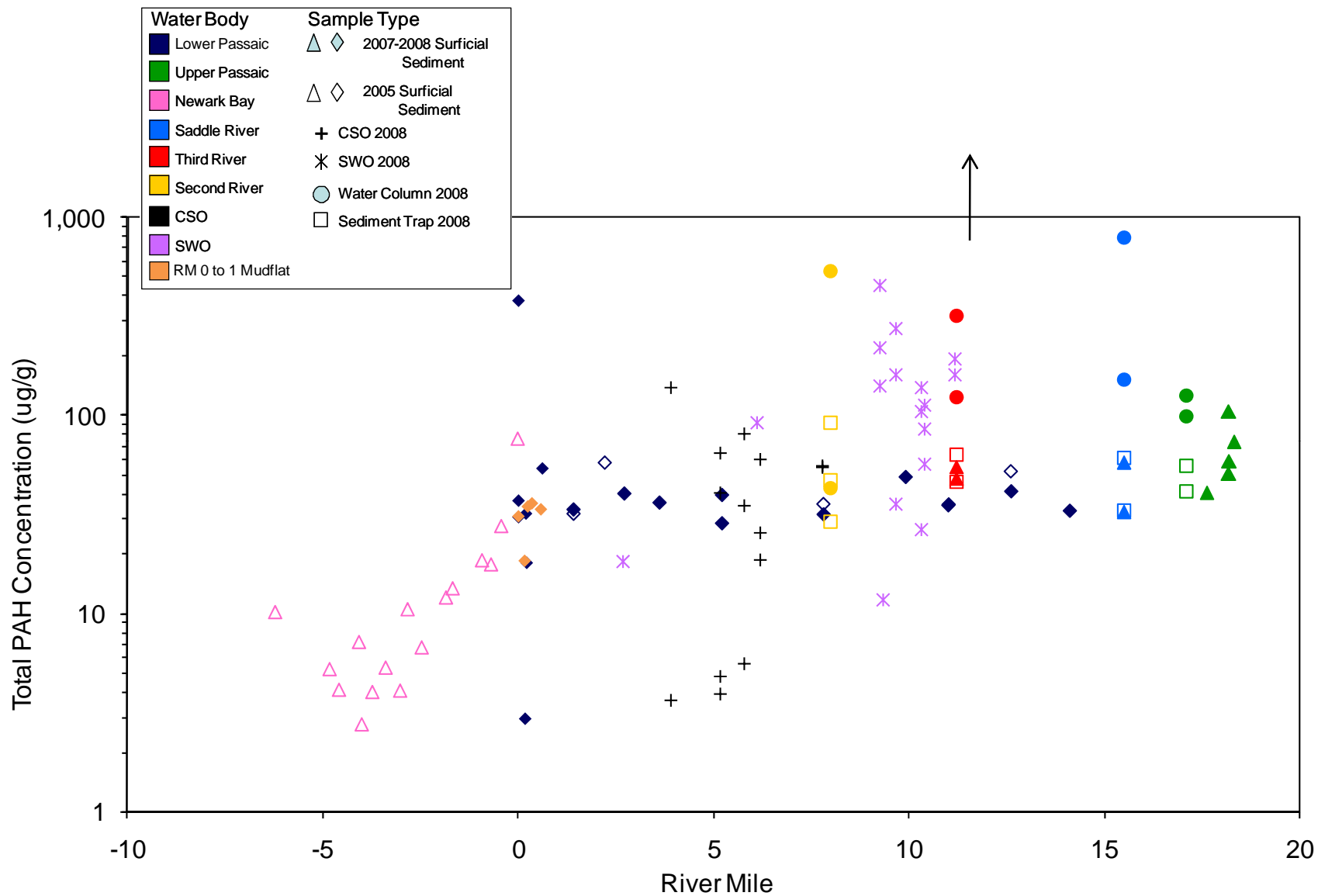


2,3,7,8-TCDD Concentration versus River Mile

Lower Passaic River Restoration Project

Figure 7-1

2009

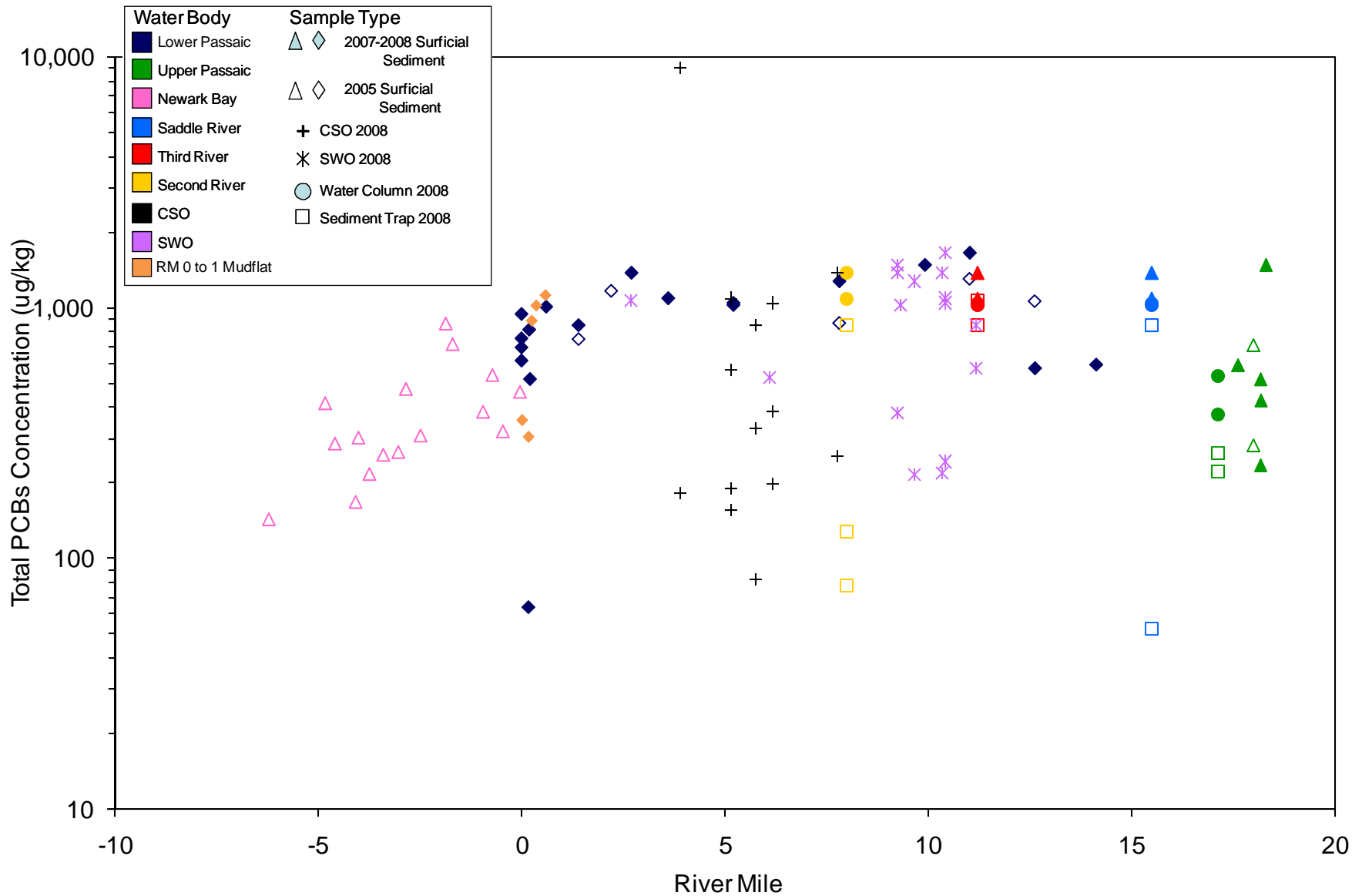


Total PAH Concentration versus River Mile

Lower Passaic River Restoration Project

Figure 7-2

2009



Total PCBs Concentration versus River Mile

Lower Passaic River Restoration Project

Figure 7-3

2009